

THIRD EDITION

**ANNUAL
CHEMICAL DIRECTORY**

OF THE

UNITED STATES

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PUBLISHER'S FOREWORD

The third edition of the ANNUAL CHEMICAL DIRECTORY OF THE UNITED STATES is offered to the subscribers with the belief that it will continue to perform an acceptable and valuable service.

The increase in the amount of information offered in the third edition demonstrates the steady growth of the American chemical industry.

As usual, all information has been secured from direct sources. Listings of firms, individuals, institutions and products have been included as heretofore without charge. This policy offers the most satisfactory plan to meet the requirements of the subscribers in the effort to establish the ANNUAL CHEMICAL DIRECTORY OF THE UNITED STATES as the most dependable publication of its character in this field in our opinion.

The general upset condition of the printing trades has delayed the publication of the third edition, but it is hoped that the importance of the information placed at the disposal of the subscribers will make up in part for the lateness of publication.

We wish to express our hearty thanks for the advice and suggestions received from many subscribers of the previous edition, the officers and members of various technical and scientific organizations; editors of technical and scientific publications, chemists; engineers; and officers of many manufacturing concerns.

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HOW TO USE THE ANNUAL CHEMICAL DIRECTORY OF THE UNITED STATES

Contents: The field covered by the Third Edition may be seen by an inspection of the contents. Contents will be located on the second page following.

Arrangement: An alphabetic arrangement has been followed in as far as possible. In Chapters I and III this arrangement has been further perfected by geographically grouping all locations mentioned: first, by states; second, by cities; and then listing under the locality firms and individuals.

Listings: In Chapters I-IV, inclusive, the retailers, dealers, agents, and importers, are distinguished from the manufacturers by a star. In such instances a star, as *, indicates the individual or firm listed is not a manufacturer in so far as our records indicate. There are exceptions to this statement, of course, and such exceptions are due to the fact that the firm or individual is both a manufacturer and a dealer. The publishers disclaim liability for any listings noted.

Acids: In Chapter I, all acids are listed under Acids. Example: Acid, Acetic; Acid, Boric; Acid, Carbonic.

Salts: In Chapter II, all salts are listed under the metallic constituent. Examples: Sodium Acetate; Sodium Borate; Sodium Carbonate.

Nomenclature: Listings are usually recorded under the correct chemical name. Trade names, in instances, are given with cross index references to the correct chemical term. The terms benzol, toluol, etc., are employed with reference to benzene, toluene, and similar substances and their derivatives.

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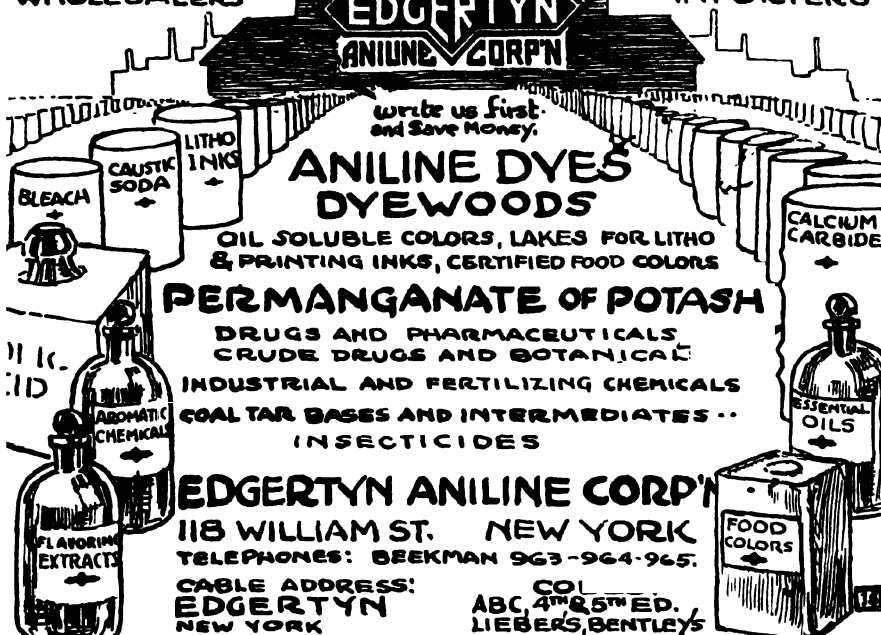
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All insertions are made without charge.

While the ANNUAL CHEMICAL DIRECTORY is intended to primarily cover the chemical industry in the United States, yet the service will be extended to cover the products of foreign firms and individuals when such insertions will prove of value to our subscribers.

Listings should be sent in under their correct chemical names. We will insert the trade name if desired, and cross index the reference to the correct chemical name.

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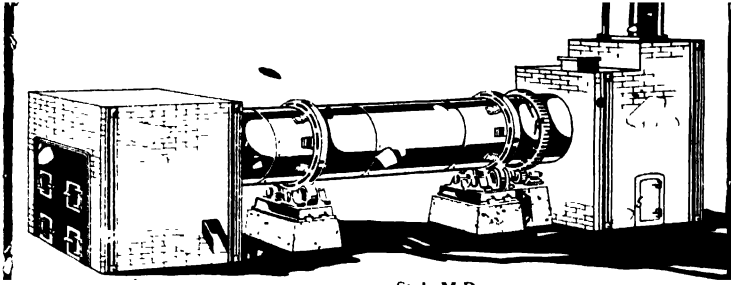
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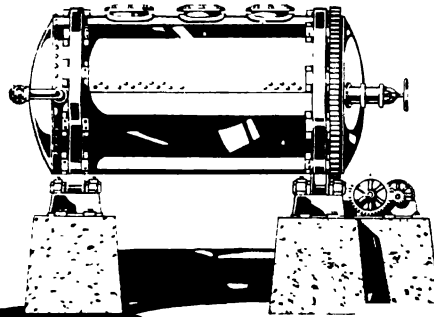
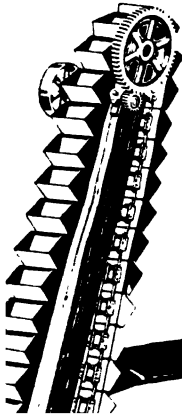
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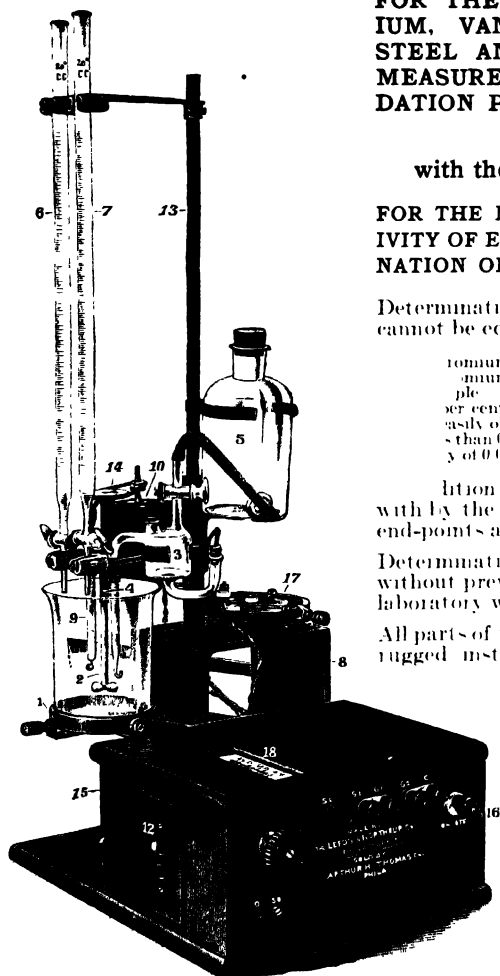
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Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

American Aniline Products Co., Inc., 15 E. 12th St.

*Baker & Bro. H. J., 81 Fulton St.

Chemical Co. of America, Inc., 28 Platt St.

*Chromos Chemical Co., The, Aeolian Hall

Edgertyn Aniline Corp., 118 William St.

*Halle-Perris Trading Corporation, 24 State St.

Heyden Chemical Works, 135 William St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

Merck & Co., 45 Park Pl.

Mertz & Co., Inc., H. A., 122 Hudson St.

Middlesex Aniline Co., Inc., 149 Broadway

National Aniline & Chemical Co., 21 Burling Slip

Rector Chemical Co., 2 Rector St.

Roessler & Hasslacher Chemical Co., 100 William St.

Southern Oil & Chemical Co., 15 Park Row

*Williamson & Co., 120 Broadway

*Wood, Inc., J. Early, 21 Platt St.

Acid, Benzoic—cont.*N. Y., Niagara Falls*

Niagara Alkali Co.

N. Y., Schenectady

Organic Products Corporation

*Ohio, Sandusky*Hord Color Products Co., The, S.
Columbus Ave.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Acid, Beta Naphthol Disulphonic***Pa., Philadelphia*

Harmer Laboratories Co.

Acid, Beta Naphthol Sulphonic*R. I., Providence*Agawam Chemical Works, 531 Gros-
venor Bldg.**Acid, Boracic (see Acid, Boric)****Acid, Boric***Cal., Oakland*

Pacific Coast Borax Co.

*Cal., San Francisco*Braun-Knecht-Heimann Co., 584 Mis-
sion St.*Del., Wilmington*

Du Pont, Nemours Co., E. I.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Thorkildsen-Mather Co., Harris Trust
Bldg.*N. Y., Brooklyn*

*Wiarda & Co., John C., 273 Greene St.

N. Y., New York City

Baker & Bro., H. J., 100 William St.

Cooper & Co., Chas., 194 Worth St.

*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William
St.Innis, Speiden & Co., Inc., 46 Cliff St.
Johnson & Johnson, 100 William St.

Klipstein & Co., A., 644 Greenwich St.

Merek & Co., 45 Park Pl.

McKesson & Robbins, Inc., 91 Fulton
St.National Aniline & Chemical Co.,
100 William St.Pacific Coast Borax Co., 100 William
St.Pfizer & Co., Inc., Chas., 81 Maiden
LaneRoessler & Hasslacher Chemical Co.,
100 William St.Southern Oil & Chemical Co., 15
Park Row

White Tar Co., 6 Cliff St.

*Wood, Inc., J. Early, 21 Platt St.

*Ohio, Cleveland*Harshaw, Fuller & Goodwin Co., 317-
323 Electric Bldg.*Pa., Easton*

Baker & Adamson Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

*R. I., Providence**Lewis, John D., 1209 Turks Head
Bldg.**Acid, 2: 6: (Broenner)***New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.**Acid, Brombenzoic***Pa., Philadelphia*

Powers-Weightman-Rosengarten Co.

Acid, Burno*Cal., San Francisco*California Aniline & Chemical Co., 33
Clementina St.**Acid, Butyric***Del., Wilmington*Hercules Powder Co., 10th and Mar-
ket Sts.*N. Y., New York City*

General Chemical Co., 25 Broad St.

Lehn & Fink, Inc., 120 William St.

Merek & Co., 45 Park Pl.

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Acid, Cacodylic***N. Y., New York City*

*Fougere & Co., E., 90 Beekman St.

Rector Chemical Co., 2 Rector St.

Acid, Camphoric*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., New York City

Merek & Co., 45 Park Pl.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Acid, Carboic (see Phenol)**Acid, Carbonic (see Carbon Dioxide)****Acid, Chlorsulphonic***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Acid, Chromic*N. Y., New York City*

Cooper & Co., Chas., 194 Worth St.
 Edgertyn Aniline Corp., 118 William St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Pl.

Squibb & Sons, E. R., 82 Beekman St.

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.,
 9th and Parrish Sts.

Acid, Cinnamic*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Bayonne

Standard Chemical Co., W. 5th St.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.
 Florasynth Laboratories, Inc., 231 Pearl St.

Lehn & Fink, Inc., 120 William St.

Merck & Co., 45 Park Pl.

National Aniline & Chemical Co., 21
 Burling Slip

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Acid, Cinnamic, C. P. (R)*Ill., Chicago*

Research Laboratory of Chicago, 467
 E. Ontario St.

Acid, Citric*Cal., Whittier*

Citrus By-Products Co.

Cal., San Francisco

Braun-Knecht-Heimann Co., 584 Mis-
 sion St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

*Campbell, C. W., 11 Cliff St.

*Echavarria & Co., R., 8 Bridge St.

*Herrick-Voigt Chemical Corporation,
 1 Liberty St.

Hoffman-La Roche Chemical Works,
 440 Washington St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Ketchum & Co., 65 Fulton St.

*Lueders & Co., Geo., 218 Pearl St.

*Magnus, Maybee & Reynard, 257
 Pearl St.

Marden, Orth & Hastings Corp'n, 61
 Broadway

McKesson & Robbins, Inc., 91 Fulton
 St.

Merck & Co., 45 Park Pl.

National Aniline & Chemical Co., 100
 William St.

*Pfaltz & Bauer, Inc., 300 Pearl St.

Pfizer & Co., Inc., Chas., 81 Maiden
 Lane

*Rockhill & Victor, 22 Cliff St.

*Tennant, C., Sons & Co., 100 William
 St.

White Tar Co., 6 Cliff St.

*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

R. I., Providence

*Lewis, John D.

Acid, Cresotinic, Tech.*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Acid, Cresylic (see also Cresol)*England, Darlington*

Parkin, Ness & Co., Quebec St.

Cal., San Francisco

Dill-Crosett, Inc., 235 Pine St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Ill., Moline

Lewis, F. J., Mfg. Co.

Ind., Indianapolis

Republic Cresoting Co., Merchants
 Bank Bldg.

N. J., Bloomfield

*Condensite Co. of America

N. J., Elizabeth

Bayway Chemical Co., Bayway

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Barrett Co., The, 17 Battery Pl.

Bush, Beach & Gent, Inc., 80 Maiden
 Lane

*Jordan, William E., 11 Cliff St.

*Ketchum & Co., 65 Fulton St.

National Aniline & Chemical Co., 100
 William St.

*Pfaltz & Bauer, Inc., 300 Pearl St.

*Richmond Products Co., 32 Broad-
 way

Roessler & Hasslacher Chemical Co.,
 100 William St.

White Tar Co., The, 2 Cliff St.

Ohio, Cincinnati

Chatfield Mfg. Co., The

R. I., Providence

*Lewis, John D.

Wash., Tacoma

Standard Chemical Co.

Acid, Delta*N. Y., New York****Drug & Dyestuffs Corporation, 120 Broadway****Acid, Dichloroacetic***Ill., Chicago***Research Laboratory of Chicago, 467 E. Ontario St.****Acid, Diethylbarbituric***Ill., Chicago***Abbott Laboratories****Acid, Dipping***Del., Wilmington***Du Pont de Nemours & Co., E. I.***Ohio, Cincinnati***Chatfield Mfg. Co., The****Acid, Electrolytic***Colo., Denver***Western Chemical Mfg. Co.***Del., Wilmington***Du Pont de Nemours & Co., E. I.***N. Y., New York City***General Chemical Co., 25 Broad St.****Kalbfleisch Corporation, 31 Union Sq., W.***Ohio, Cleveland***Grasselli Chemical Co., Arcade Bldg.***Pa., Warren***Riverside Acid Works****Acid, Fatty***Ill., Chicago***Armour Fertilizer Works, Union Stock Yards*****Daigger & Co., A., 54 W. Kinzie St.***Md., Baltimore***Virginia Red Oil Products Corporation***N. Y., New York City***Boyer Oil Co., Inc., 29 Broadway****Marden, Orth & Hastings Corp'n, 61 Broadway****National Oil Products Co., 220 Broadway****Southern Cotton Oil Co., 120 Broadway****Southern Oil & Chemical Co., 15 Park Row***Ohio, Celina***Celina Stearic Acid Co.***Ohio, Cincinnati***Joslin-Schmidt Co., 3223 Spring Grove Ave.***Ohio, Dayton***Economy Soap Products Co., N. Irwin St.***Pa., Philadelphia***Baugh & Sons Co.****Acid, Formic***Ill., Chicago****Daigger & Co., A., 54 W. Kinzie St.***Mass., Boston***Merrimac Chemical Co., 32 Broad St.***N. J., Jersey City***Onyx Oil & Chemical Co.***N. Y., New York City***Herrick-Voigt Chemical Corporation, 1 Liberty St.****Innis, Speiden & Co., Inc., 46 Cliff St.*****Ketchum & Co., 65 Fulton St.****Klipstein & Sons Co., E. C., 644 Greenwich St.****Kalle Color & Chemical Co., 530 Canal St.****Katzenbach & Bullock Co., 100 William St.****Merck & Co., 45 Park Pl.****U. S. Industrial Chemical Co., 27 William St.***N. Y., Syracuse***Rosebrugh Chemical Corporation, 1618 N. Salina St.***Pa., Philadelphia***Powers-Weightman-Rosengarten Co.***R. I., Providence****Lewis, John D.****Acid, G.***R. I., Providence***Agawam Chemical Works, 10 Weybosset St.****Acid, Gallic***Conn., Hartford***Eastern Chemical Works***Mo., St. Louis***Mallinckrodt Chemical Works, 3600 N. 2nd St.***N. Y., Hastings-On-Hudson***Zinsser & Co.***N. Y., New York City***Cooper & Co., Charles, 194 Worth St.*****Klipstein & Co., A., 644 Greenwich St.****Merck & Co., 45 Park Pl.****National Aniline & Chemical Co., 21 Burling Slip*****Schering & Glatz, 150 Maiden Lane***Pa., Philadelphia***Powers-Weightman-Rosengarten Co.****Acid, Gallic, Technical***N. Y., New York City***Cooper & Co., Chas., 194 Worth St.****Acid, Gamma***N. Y., New York City***Chemical Co. of America, 176 Front St.*****Rector Chemical Co., Inc., 2 Rector St.**

Acid, H**Ill., Quincy**

Monroe Color & Chemical Co., N. Front St.

N. Y., New York City

Chemical Co. of America, Inc., 176 Front St.

Edgertyn Aniline Corp., 118 William St.

*Herman & Herman, Inc., 6 Church St. Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

*Rector Chemical Co., 2 Rector St.

*Williamson & Co., 120 Broadway

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Wis., Milwaukee

Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Acid, Hydrobromic**Mich., Midland**

Dow Chemical Co.

N. Y., New York City

Merck & Co., 45 Park Pl.

Squibb & Sons, E. R., 80 Beekman St.

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

W. Va., Malden

Dickinson & Co., J. Q.

Acid, Hydrochloric**Cal., San Francisco**

Mountain Copper Co., 332 Pine St.

San Francisco Chemical Co., 332 Pine St.

Colo., Denver

Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Conn., Naugatuck

Naugatuck Chemical Co., The

Del., Wilmington

Du Pont de Nemours & Co., E. I.

England, London

Berk & Co., Ltd., F. W., 1 Fenchurch Ave.

Ill., Chicago

Armour Fertilizer Works, Union Stock Yards

*Daigger & Co., A., 54 W. Kinzie St. Metal Products Co., 100 S. Jefferson St.

Ill., Danville

Hegeler Bros.

Ill., LaSalle

Matheson & Hegeler Zinc Co.

Ill., Peru

Illinois Zinc Co.

Me., Portland

Brown Co.

Md., Baltimore

Davison Chemical Co., South and German Sts.

*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.

Thomson Chemical Co., Race and Winder Sts.

Mass., Boston

Avery Chemical Co., 88 Broad St.

Cochrane Chemical Co., 40 Central St.

*King & Co., Inc., E. & F., 367 Atlantic Ave.

Merrimac Chemical Co., 32 Broad St.

Mass., Worcester

*Brewer & Co.

*Marble & Co., J. Russell

Mich., Detroit

Michigan Carbon Works, Carbon and Forman Aves.

Mich., Midland

Dow Chemical Co.

Mo., Kansas City

National Zinc Co., Packers Station

Mo., St. Louis

Commercial Acid Co., Boatman's Bank Bldg.

Lambert Chemical Co., Railway Exchange Bldg.

Monsanto Chemical Works, 2nd St. and LaFayette Ave.

N. J., Bloomfield

Condensite Co. of America

N. Y., Albany

Albany Chemical Co.

N. Y., Brooklyn

Robinson Bros., Montrose and Seneca Aves.

Wiarda & Co., John C., 273 Green St.

N. Y., Buffalo

Contact Process Co., Abbott Road near Lee

N. Y., Niagara Falls

Niagara Alkali Co., Buffalo Ave. and Union St.

N. Y., New York City

Beer, Sondheimer & Co., 61 Broadway

Butterworth-Judson Co., 61 Broadway

*Cooper & Cooper, 309 Broadway

Cooper & Co., Chas., 194 Worth St.

*Echavarria & Co., R., 8 Bridge St.

*Fuerst Bros. & Co., 2 Stone St.

General Chemical Co., 25 Broad St.

*Gowing & Co., Inc., D. H., 47 W. 34th St.

*Halle-Perris Trading Corporation, 24 State St.

Hooker Electrochemical Co., 40 Wall St.

Kalbfleisch Corporation, 31 Union Sq., W.

Acid, Hydrochloric—cont.*N. Y., New York City—cont.*Klipstein & Sons Co., E. C., 644
Greenwich St.Marden, Orth & Hastings Corp'n, 61
Broadway*Marell Chemical Co., Inc., 25 Beaver
St.

Merck & Co., 45 Park Pl.

New Jersey Zinc Co., 160 Front St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Troy

*Thompson Sons & Co., John L.

*Ohio, Cincinnati**Drackett & Sons Co., P. W., 5020
Spring Grove Ave.*Ohio, Cleveland*

Grasselli Chemical Co., Arcade Bldg.

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Philadelphia

Barrett Mfg. Co., Land Title Bldg.

Lennig & Co., Chas., 112 S. Front St.

Penna. Salt Mfg. Co., 115 Chestnut
St.Powers-Weightman-Rosengarten Co.,
9th and Parrish St.*Pa., Warren*

Riverside Acid Works

R. I., Providence

Arnold, Hoffman & Co.

Tenn., Kingsport

Union Dye & Chemical Corporation

Acid, Hydrochloric, C. P.*N. Y., New York City*Kalbfleisch Corporation, 31 Union
Sq., W.**Acid, Hydrocyanic***N. Y., New York*

Cooper & Co., Charles, 194 Worth St.

Merck & Co., 45 Park Pl.

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Acid, Hydrofluoric***Conn., Naugatuck*

Naugatuck Chemical Co., The

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson
St.*Md., Baltimore*Thomson Chemical Co., Race and
Winder Sts.*Mass., Boston*

Cochrane Chemical Co.

N. J., Phillipsburg

Baker Chemical Co., J. T.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Cooper & Co., Chas., 194 Worth St.

General Chemical Co., 25 Broad St.

Kalbfleisch Corp., 31 Union Sq.

Katzenbach & Bullock Co., 100 Wil-
liam St.

*Ketchum & Co., 65 Fulton St.

Merck & Co., 45 Park Pl.

Southern Oil & Chemical Co., 15 Park
RowU. S. Metals Refining Co., 42 Broad-
wayU. S. Smelting, Refining & Mining Co.,
Inc., 120 Broadway*Ohio, Cincinnati**Drackett & Sons Co., P. W., 5020
Spring Grove Ave.Globe Chemical Co., 1135 Regent
Ave.*Ohio, Cleveland*Harshaw, Fuller & Goodwin, Co., 317
Electric Bldg.*Pa., Easton*

Baker & Adamson Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Pa., Warren

Riverside Acid Works

Pa., York

Hydrofluoric Mfg. Co.

Acid, Hydrofluosilicic*Md., Baltimore*

Davison Chemical Co.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St

General Chemical Co., 25 Broad St.

Merck & Co., 45 Park Place

U. S. Smelting, Refining & Mining Co.,
Inc., 120 Broadway*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Acid, Hypophosphorous*Mo., St. Louis*Mallinckrodt Chemical Works, 3600
N. 2d St.*Pa., Philadelphia*

Powers-Weightman-Rosengarten Co.

Acid, Lactic*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Ill., Peoria

Woolner Distilling Co.

Mass., Boston

Avery Chemical Co., 88 Broad St.

N. J., Jersey City

Onyx Oil & Chemical Co.

Acid, Lactic—cont.*N. Y., Long Island City*

Oakes Mfg. Co.

*N. Y., New York City*Apex Chemical Co., Inc., 63 Park Row
Holliday, Read & Sons, Ltd., 160
Franklin St.*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61
Broadway

*Pfaltz & Bauer, 330 Pearl St.

Merek & Co., 45 Park Pl.

Southern Oil & Chemical Co., 15 Park
Row

Williamson & Co., 120 Broadway

*Wood, Inc., J. Early, 21 Platt St.

Pa., Bradford

American Acid & Alkali Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Acid, Linoleic*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Acid, Metanilic***N. Y., New York City*Marden, Orth & Hastings Corp'n, 61
BroadwayNational Aniline & Chemical Co., Inc.,
21 Burling Slip**Acid, Meta Titanic***N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Acid, Mixed***Colo., Denver*Western Chemical Mfg. Co., S. Osage
and W. Bayaud Sts.*Conn., Naugatuck*

Naugatuck Chemical Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

*Mo., St. Louis*Commercial Acid Co., Boatmen's
Bank Bldg.Lambert Chemical Co., Railway Ex-
change Bldg.Monsanto Chemical Works, 2nd St.
and LaFayette Ave.*N. Y., Buffalo*Contact Process Co., Abbott Road, nr.
Lee*N. Y., New York City*

Butterworth-Judson Co., 61 Broadway

Cooper & Co., Chas., 194 Worth St.

General Chemical Co., 25 Broad St.

*Williamson & Co., 120 Broadway

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

*Pa., Philadelphia*Pennsylvania S&T Mfg. Co., 115 Chest-
nut St.**Acid, Molybdic***Colo., Denver*Chemical Products Co., 612 Majestic
Bldg.

Mine & Smelter Supply Co.

Del., Wilmington

Mineral Products Mfg. Co.

Ill., Chicago

*Daigger & Co., A., 52-56 W. Kinzie St.

*Laboratory Materials Co., 640 E.
71st St.*N. J., Belleville*

Rare Metal Products Co., Cortland St.

N. Y., New York City

Holz, Herman A., 17 Madison Ave.

Merek & Co., 45 Park Pl. •

Squibb & Sons, E. R., 80 Beekman St.

N. Y., Schenectady

Organic Products Corporation

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts*Pa., Primas*

Primos Chemical Co.

Acid, Monochloracetic*Mich., Midland*

Dow Chemical Co

Pa., Philadelphia

Harmer Laboratories

Acid, Monosulfonic, F 2 : 7*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.National Aniline & Chemical Co., Inc.,
21 Burling Slip**Acid, Monosulphonic, Alpha
Naphthol***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Acid, Monosulphonic, Alpha
Naphthylamine***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Acid, Muriatic (see Acid, Hydro-
chloric)**

Acid, Naphthionic*Del., Wilmington*

Du Pont Chemical Works

*N. J., Perth Amboy*General Supply Co., Market St. and
Bertrand Ave.*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Chemical Co. of America, 28 Platt St.

Klipstein & Sons Co., E. C., 644 Green-
wich St.Marden, Orth & Hastings Corp'n, 61
Broadway*Pa., Philadelphia*

Harmer Laboratories Co.

Pa., Reading

Althouse Chemical Co.

*R. I., Providence*Agawam Chemical Works, 10 Wey-
bosset St.*Wis., Milwaukee*Newport Chemical Works, Inc., 1112
First National Bank Bldg.**Acid, Napthol Disulphonic***R. I., Providence*Agawam Chemical Works, 10 Wey-
bosset St.**Acid, Naphthylamine Disul-
phonic***R. I., Providence*Agawam Chemical Works, 10 Wey-
bosset St.**Acid, Neville and Winther's***N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.*R. I., Providence*Agawam Chemical Works, 10 Wey-
bosset St.**Acid, 1, 3, 6***Wis., Milwaukee*Newport Chemical Works, Inc., 1112
First National Bank Bldg.**Acid, Nitric***Cal., San Francisco*

Mountain Copper Co., 332 Pine St

San Francisco Chemical Co., 332 Pine
St.*Colo., Denver*Western Chemical Mfg. Co., S. Osage
and W. Bayaud Sts.*Conn., Naugatuck*

Naugatuck Chemical Co., The

Del., Wilmington

Du Pont de Nemours & Co., E. I.

*England, London, E. C. 3*Berk & Co., Ltd., F., W. 1 Fenchurch
Ave.*Ill., Chicago*Armour Fertilizer Works, Union
Stock Yards*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson
St.*Ill., Danville*

Hegeler Bros.

Ill., Depue

Mineral Paint Zinc Co.

Ill., LaSalle

Matheson & Hegeler Zinc Co.

Ill., Peru

Illinois Zinc Co.

Ill., Springfield

National Zinc Co.

*Md., Baltimore*Davison Chemical Co., South and Ger-
man Sts.,Thomson Chemical Co., Race and Win-
der Sts.*Mass., Boston*

Avery Chemical Co., 88 Broad St.

Cochrane Chemical Co., 40 Central St.

*King & Co., Inc., E. & F., 367 Atlantic
Ave.

Merrimac Chemical Co., 32 Broad St.

Mass., Worcester

*Brewer & Co.

*Marble & Co., J. Russell

*Mich., Detroit*Detroit Chemical Works, 238 Junction
Ave.*Mo., Kansas City*

National Zinc Co., Packers Station

*Mo., St. Louis*Commercial Acid Co., Boatmen's
Bank Bldg.Lambert Chemical Co., Railway Ex-
change Bldg.Monsanto Chemical Works, 2nd St.
and LaFayette Ave.*Salzgeber, George H., 109 St. George
St.*N. J., Bound Brook*

King Chemical Co.

N. J., Phillipsburg

Baker Chemical Co., J. T.

N. Y., Albany

Albany Chemical Co.

*N. Y., Brooklyn*Robinson Bros., Montrose and Seneca
Aves.

Wiarda & Co., John C., 273 Green St.

*N. Y., Buffalo*Contact Process Co., Abbott Road,
near Lee*N. Y., New York City*American Cyanamid Co., 511 Fifth
Ave.

Acid, Nitric—cont.*N. Y., New York City—cont.*

*Baker & Bro., H. J., 81 Fulton St.
 *Beer, Sondheimer & Co., 61 Broadway
 Butterworth-Judson Corp., 61 Broadway

*Cooper & Cooper, 309 Broadway
 Cooper & Co., Charles, 194 Worth St.
 *Echavarria & Co., R., 8 Bridge St.
 *Fuerst Bros. & Co., 2 Stone St.
 General Chemical Co., 25 Broad St.

*Halle-Perris Trading Corporation,
 24 State St.

*Independent Chemical Co., 122 West St.

Kalbfleisch Corp., 31 Union Sq. W.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Pl.

Southern Oil & Chemical Co., 15 Park Row

*Willamson & Co., 120 Broadway

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Troy

Thompson Sons & Co., John L.

Ohio, Cincinnati

*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Globe Chemical Co., 1135 Regent Ave.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Harshaw, Fuller & Goodwin Co.

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Emporium

Cameron Powder Mfg. Co.

Pa., Philadelphia

Barrett Mfg. Co., Land Title Bldg.

Lennig, Chas., & Co., 112 S. Front St.

Penna. Salt Mfg. Co., 115 Chestnut St.

Powers-Weightman-Rosengarten Co.,
 9th and Parrish Sts.

Pa., Warren

Riverside Acid Works

R. I., Providence

Arnold, Hoffman & Co.

American Nitrogen Products Co.,
 Securities Bldg.

Tenn., Kingsport

Federal Dyestuff & Chemical Corporation

Acid, Nitrohydrochloric*Pa., Philadelphia*

Powers-Weightman-Rosengarten Co

Acid, Nucleinic*Mich., Detroit*

Digestive Ferments Co., 240 Henry St.

Acid, Oleic*Ill., Chicago*

Armour Fertilizer Works

Morris & Co.

Md., Baltimore

Virginia Red Oil Products Corp.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

Merck & Co., 45 Park Pl.

National Oil Products Co., 220 Broadway

Ohio, Celina

Celina Stearic Acid Co. *

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Harshaw, Fuller & Goodwin Co., Electric Bldg.

Ohio, St. Bernard

Werk Co., M.

Acid, Oxalic*Cal., San Francisco*

*Dill-Croset, Inc., 235 Pine St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., James H., 157 W. Austin Ave.

Victor Chemical Co., 343 S. Dearborn St.

Md., Baltimore

*Bloede Co., Victor G.

*Thomsen Chemical Co., Race and Winder Sts.

Mass., Boston

*Avery Chemical Co., 88 Broad St.

*United Indigo & Chemical Co., 176 Federal St.

Mass., Worcester

*Brewer & Co.

*Marble & Co., J. Russell

Mich., Charlotte

*Charlotte Drug Co.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

*Robinson Bros., Montrose and Seneca Ave.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

*Campbell, C. W., 11 Cliff St.

*Cooper & Co., Charles, 194 Worth St.

*Echavarria & Co., R., 8 Bridge St.

*Freeman & Co., R. B., 96 Wall St.

Acid, Oxalic—*chnt.**N. Y., New York City—cont.*

*Herrick-Voigt Chemical Corporation, 1 Liberty St.

*Holliday, Read & Sons, Ltd., 160 Franklin St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

*Marden, Orth & Hastings Corp'n, 61 Broadway

*Merck & Co., 45 Park Pl.

National Aniline & Chemical Co., 21 Burling Slip

*Riker, J. L. & D. S., 19 Cedar St.

*Roessler & Hasslacher Chemical Co., 100 William St.

*Squibb & Sons, E. R., 82 Beekman St.
Tennant Sons & Co., C., 100 William St.

*U. S. Industrial Alcohol Co., 27 William St.

*Van Brunt & Co., J. A., 114 John St.

*White Tar Co., Cliff and John Sts.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Troy

*Thompson, Sons & Co., John L.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.

Pa., Bradford

American Acid & Alkali Co.

Pa., Easton

*Baker & Adamson Chemical Co.

Pa., Philadelphia

*Powers-Weightman-Rosengarten Co.

*Smith, Kline & French Co

R. I., Providence

*Arnold, Hoffman & Co., 55 Canal St.

*Lewis, John D.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blytheswood Sq.

Acid, Perchloric*Mich., Midland*

Dow Chemical Co.

N. Y., Batavia

Genesee Chemical Co.

Acid, Phosphoric*Ill., Chicago*

*Daigger & Co., A., 52-56 W. Kinzie St.

*Laboratory Materials Co., 640 E. 71st St.

Victor Chemical Co., 343 S. Dearborn St

Mich., Detroit

Michigan Carbon Works, Carbon and Forman Aves.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2nd. St.

N. Y., Kingston

Nitrated Chemicals Co.

N. Y., New York City

American Cyanamid Co., 511 Fifth Ave.

Berlin Aniline Works, 213 Water St.

Cooper & Co., Charles, 194 Worth St.

General Chemical Co., 25 Broad St.

Innis, Speiden & Co., 46 Cliff St.

*Katzenbach & Bullock Co., 100 William St.

*Klipstein & Co., A., 644 Greenwich St.

*Magnus, Mabey & Reynard, 257 Pearl St.

Merck & Co., 45 Park Pl.

Southern Oil & Chemical Co., 15 Park Row

United Aniline & Chemical Works, Inc., 377 Broadway

Warner Chemical Co., 52 Vanderbilt Ave.

*Wilckes-Martin-Wilckes Co., 135 William St

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

R. I., Providence

Rumford Chemical Works

Acid, Phosphoric, Anhydrous*(see Phosphorus Pentoxide)***Acid, Phosphoric, Glacial***N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Acid, Phosphotungstic*Pa., Philadelphia*

Footo Mineral Co., 107 N. 19th St.

Acid, Phthalic*Cal., Berkeley*

Catalytic Chemical Co.

Ill., Chicago

Gas Oil Co. of Indiana, People's Gas Bldg.

N. Y., Hastings-on-Hudson

Zinsser & Co.

N. Y., Kingston

Nitrated Chemicals Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

*Chromos Chemical Co., Inc., Aeolian Hall

*Rector Chemical Co., Inc., 2 Rector St.

Squibb & Sons, E. R., 82 Beekman St.

*Williamson & Co., 120 Broadway

Acid, Phthalic—*cont.**Ohio, Youngstown*

Youngstown Chemical Co., Sycamore St.

Pa., Philadelphia

Harmer Laboratories Co.

Acid, Picramic*Del., Wilmington*

Du Pont Chemical Works

N. Y., New York City

*Hemingway, Inc., Frank, 115 Broadway

N. Y., Hastings-on-Hudson

*Zinsser & Co.

Acid, Picric*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. J., Perth Amboy

May, F. L., Chemical Co.

Ingersoll-Rand Co.

N. J., Phillipsburg

Baker, J. F., Chemical Co.

N. Y., New York City

Aetna Explosive Co., 120 Broadway

Butterworth-Judson Corp., 61 Broadway

Holliday, Read & Sons, Ltd., 160 Franklin St.

*Klipstein & Co., 644 Greenwich St.

*Williamson & Co., 120 Broadway

N. Y., Niagara Falls

Hooker Electrochemical Co.

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Sandusky

Hord Color Products Co., The

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Acid-Proofing Compound*N. J., Lincoln*

Atlas Mineral Products Co.

Acid-Proof Ware Compound, Jointing*N. J., Lincoln*

Atlas Mineral Products Co.

Acid, Propionic*Del., Wilmington*

Hercules Powder Co., 10th and Market Sts.

N. Y., New York City

General Chemical Co., 25 Broad St.

Acid, Prussic (see Acid, Hydrocyanic)**Acid, Pyrogallic***Conn., Elmwood*

Eastern Chemical Works

N. Y., Hastings-on-Hudson

*Zinsser & Co.

N. Y., New York City

*Klipstein & Co. A., 644 Greenwich St.

Hoffman-La Roche Chemical Co., 440

Washington St.

McKesson & Robbins, Inc., 91 Fulton St.

Merek & Co., 45 Park Pl.

Pa., Philadelphia

Harmer Laboratories Co.

Powers-Weightman-Rosengarten Co.

Acid, Pyrogallic, U.S.P.*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600

N. 2nd St.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Husking, Inc., Chas. L., 5 Platt St.

Acid, Pyroligneous*Ga., Savannah*

National Rosin Oil & Size Co.

La., New Orleans

American Turpentine & Tar Co.

Mass., Boston

Avery Chemical Co., 88 Broad St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600

N. 2nd St.

N. J., Belleville

Eastwood Chemical Co.

N. Y., New York City

General Naval Stores Co., Inc., 90 West St.

Georgia Pine Turpentine Co. of New York, 160 Perry St.

*Klipstein & Co., 644 Greenwich St.

McKesson & Robbins, Inc., 91 Fulton St.

N. C. Wilmington

Spirittine Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

R. I., Providence

Arnold, Hoffman & Co.

Acid, R*N. Y., New York City*

Edgertyn Aniline Corp., 118 William St.

R. I., Providence

Agawam Chemical Works, 10 Weybosset St.

Acid Red, 4B and 6B: (Passaic)*N. J., Passaic*

American Color Mfg. Co., Gregory Ave. and River Rd.

Acid, Salicylic*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Midland

Dow Chemical Co.

*Mo., St. Louis*Monsanto Chemical Works, 2nd St.
and LaFayette Ave.*N. J., Ridgfield Park*

British-American Chemical Co., Inc.

*N. Y., New York City**Alexander & Co., Inc., C. S., 61
Broadway*Baker & Bro., H. J., 81 Fulton St.
Calco Chemical Co., Woolworth Bldg.
Chemical Co. of America, Inc., 28
Platt St.*Drugs & Dyestuff Corp., 120 Broad-
wayEdgertyn Aniline Corp., 118 William
St.*Hemingway, Inc., Frank, 115 Broad-
wayHeyden Chemical Works, 135 William
St.Hoffman-La Roche Chemical Works,
440 Washington St.

Johnson & Johnson, 100 William St.

Marden, Orth & Hastings Corp'n, 61
BroadwayMcKesson & Robbins, Inc., 91 Fulton
St.

Merck & Co., 45 Park Pl.

*Nitrate Agencies Co., 102 Pearl St.

*Peters, White & Co., 55 John St.

*Rector Chemical Co., 2 Rector St.

*Williamson & Co., 120 Broadway

*Wood, Inc., J. Early, 21 Platt St

N. Y., North Tonawanda

Synthetic Mfg. Co.

N. Y., Schenectady

Organic Products Corporation

N. Y., Syracuse

Semet-Solvay Co.

*Ohio, Cincinnati*Merrell Chemical Co., Wm., 5th and
Pike Sts.*Pa., Carnegie*

Aetna Chemical Co.

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.Smith, Kline & French Co., 431 Arch
St.**Acid, Selenious***N. Y., New York City*American Smelting & Refining Co.,
120 Broadway**Acid, Stearic***Ill., Chicago*

*Clark, Frank C., 316 W. Kinzie St.

*Daigger & Co., A., 54 W. Kinzie St.
Morris & Co.

Swift & Co.

Md., Baltimore

Virginia Red Oil Products Corp.

Mont., Helena

Perry & Co., C. T.

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway

Bromund Co., E. A., 356 W. Broadway

Century Stearic Acid Candle Works,
380 South St.

*Echavarrria & Co., R., 8 Bridge St.

Edgertyn Aniline Corp., 118 William
St.

*Elbert & Co., Produce Exchange

*Ketchum & Co., 65 Fulton St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth Hasting Corp'n, 61
BroadwayMcKesson & Robbins, Inc., 91 Fulton
St.

Merck & Co., 45 Park Pl.

National Oil Products Co., 220 Broad-
way

*Pfaltz & Bauer, Inc., 300 Pearl St.

Plymouth Organic Laboratories, 65
Ann St.

*Randell, F. L., & Co., 197 Pearl St.

*Rockhill & Vietor, 22 Cliff St.

*Smith & Nichlos, 121 Maiden Lane

*Standard Wax & Import Co., 95 Wil-
liam St.*Strohmeier & Arpe Co., 139 Franklin
St.Van Brunt & Co. Inc., J. A., 114 John
St.

*Van Dyk, L. A., 90 W. Broadway

Ohio, Celina

Celina Stearic Acid Co.

Ohio, Cincinnati

Emery Candle Co., 414 Walnut St.

*Harkness & Cowing Co., Murray Ave.
and Carthage Peak

Proctor & Gamble Co., Gwynne Bldg.

Ohio, St. Bernard

*Werk Co., M.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Martin, D. B., Co.

Pa., Pittsburgh

Falk Co.

**Acid, Storage Battery (see
Electrolyte)****Acid, Succinic***Ill., Peoria*

Woolner & Co.

Acid, Succinic—cont.*Mo., St. Louis*

Mallinckrodt Chemical Works

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Pl.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Acid, Sulphanilic*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Chemical Co. of America, 28 Platt St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Pl.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Rector Chemical Co., 2 Rector St.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Powers-Weightman-Rosengarten Co.

Acid, Sulphonic Beta Naphthol-G*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Beta Naphthol-R*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Naphthalene*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Naphthol*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Naphthylamine*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphuric*Ala., Birmingham*

Birmingham Fertilizer Co.

Ala., Montgomery

Alabama Chemical Co.

Ala., Troy

Standard Chemical & Oil Co.

Ariz., Douglas

Calumet & Arizona Copper Co.

Ark., Little Rock

Arkansas Fertilizer Co.

Cal., Berkeley

Pacific Guano & Fertilizer Co.

Cal., San Francisco

Barbour Chemical Works

Mountain Copper Co., Ltd., 332 Pine St.

Stauffer Chemical Co., 624 California St.

Canada, Drummondville, Quebec

Aetna Explosives Co.

Canada, Sault Ste. Marie

Algoma Steel Corp., Ltd.

Colo., Denver

Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts. (60°, 66°, 98° Oleum)

Colo., Pueblo

Norcross Chemical Co.

Conn., Naugatuck

Naugatuck Chemical Co. (66°)

Del., Wilmington

E. I. duPont de Nemours Co.

England, London, E. C. 3

Berk & Co., Ltd., F. W., 1 Fenchurch Ave.

England, Manchester

Spence & Sons, Ltd., Peter

Fla., Jacksonville

Wilson & Toomer Fertilizer Co.

Ga., Atlanta

Marietta Fertilizer Co.

Swift & Co., Fertilizer Works

Ga., Augusta

Southern States Phosphate & Fertilizer Co.

Ga., Macon

McCabe Bros.

Ga., Newman

Coweta Fertilizer Co.

Ga., Savannah

Barker Chemical Co. (60° and 66°)

Phosphate Mining Co.

Reliance Fertilizer Co. (60° and 66°)

Savannah Guano Co.

Southern Fertilizer & Chemical Co.

Willcox-Ives & Co.

Ill., Chicago

Armour Fertilizer Works, Union Stock Yards

*Daigger & Co., A., 54 W. Kinzie St.

Metal Products Co., 100 S. Jefferson St.

Mineral Point Zinc Co., 140 S. Dearborn St.

Victor Chemical Works

Ill., Danville

Hegeler Bros.

Acid, Sulphuric—cont.**Ill., East St. Louis**

American Zinc Co. of Illinois
Commercial Acid Co.
Granby Smelting & Refining Co.

Ill., LaSalle

Matthieson & Hegeler Zinc Co.

Ill., Peru

Illinois Zinc Co.

Ky., Louisville

Federal Chemical Co.

La., New Orleans

New Orleans Acid & Fertilizer Co.

Md., Baltimore

Baugh Chemical Co.
Davison Chemical Co.
*Maryland Chemical Co., Columbia
Ave. and B. & O. R. R.
Rasin Monumental Co., National
Marine Bank Bldg.
Standard Acid Works
Thomsen Chemical Co., Race and
Winder Sts.

Mass., Boston

American Zinc, Lead & Smelting Co.,
55 Congress St.
Avery Chemical Co., 88 Broad St.
Bradley Fertilizer Works, 92 State St.
Cochrane Chemical Co.
*King & Co., Inc., E. & F., 367 Atlantic
Ave.
Merrimac Chemical Co., 32 Broad St.

Mass., Worcester

Brewer & Co.

Mich., Detroit

Detroit Chemical Works, 238 Junction
Ave.
Michigan Carbon Works, Carbon and
Forman Aves.

Miss., Tupelo

Tupelo Fertilizer Factory

Mo., Kansas City

National Zinc Co., Packers Station

Mo., St. Louis

American Zinc, Lead & Smelting Co.,
Pierce Bldg.
Commercial Acid Co., 1916 Boatmen's
Bank Bldg.
Mallinckrodt Chemical Works, 3600
N. 2d St.
Monsanto Chemical Works, 2nd St.
and LaFayette Ave.
Lambert Chemical Co., Railway Ex-
change Bldg.

N. J., Bound Brook

King Chemical Co.

N. J., Jersey City

Mulane Chemical Co.

N. J., Newark

Listers Agri. Chemical Works, Lister
Ave.

N. J., Phillipsburg

Baker Chemical Co., J. T.

N. J., Warners

Ammo-Phos Corporation, The

N. Y., Albany

Albany Chemical Co.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., Buffalo

Contact Process Co., Abbott Rd. near
Lee

N. Y., New York City

American Agricultural Chemical Co.,
2 Rector St.
American Cyanamid Co., 511 Fifth
Ave.
American Metal Co., Ltd., 61 Broad-
way
American Smelting & Refining Co.,
120 Broadway
*Baker & Bro., H. J., 81 Fulton St.
Butterworth-Judson Co., 61 Broadway
*Cooper & Cooper, 309 Broadway
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William
St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Gowing & Co., Inc., D. H., 47 W. 34th
St.
*Halle-Perris Trading Corporation,
24 State St.
*Herman & Herman, Inc., 6 Church St.
*Independent Chemical Co., 122 West
St.
International Agricultural Corp., 165
Broadway
Kalbfleisch Corp., 31 Union Sq. W.
Marden, Orth & Hastings Corp'n, 61
Broadway
*Marell Chemical Co., Inc., 25 Beaver
St.
Merck & Co., 45 Park Pl.
Mutual Chemical Co. of America, 55
John St.
New Jersey Zinc Co., 160 Front St.
*Peters, White & Co., 55 John St.
Southern Oil & Chemical Co., 15 Park
Row.
Union Seed & Fertilizer Co., 65 Broad-
way
*Williams & Son, Inc., J. T., 100
Broadway
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
N. C., Charlotte
Combee Fertilizer Co.
N. C., Wilmington
Navasse Guano Co.

Acid, Sulphuric—*cont.**Ohio, Cincinnati*

*Drackett & Sons Co., P. W., 5020

Spring Grove Ave.

Globe Chemical Co.

Jarecki Chemical Co.

Ohio, Cleveland

Cleveland-Cliffs Iron Co.

Grasselli Chemical Co.

Ohio, Columbus

Farmers Fertilizer Co., The

Pa., Bradford

American Alkali & Acid Co.

Pa., Donora

American Steel & Wire Co.

United States Steel Corp.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co.

Powers-Weightman-Rosengarten Co.

Lennig, Charles & Co., Bridesburg

South Philadelphia Fertilizer Works

United Gas Improvement Co.

Pa., Pittsburgh

American Zinc & Chemical Co.

Pa., Warren

Riverside Acid Works (50°, 60° and 66°)

Pa., York

York Chemical Works

S. C., Charleston

Anderson Phosphate & Oil Co.

Etiwan Fertilizer Co.

McCabe Chemical Co.

Tenn., Copperhill

Tennessee Copper Co.

Tenn., Isabella

Ducktown Sulphur, Copper & Iron Co., Ltd.

Tenn., Nashville

Read Phosphate Co.

Texas, Sugarland

Sugarland Mfg. Co.

Utah, Garfield

Garfield Smelting Co.

Utah Copper Co.

Va., Norfolk

Atlantic Chemical Corporation

Columbia Guano Co.

Royster Guano Co., F. S.

Va., Richmond

Richmond Guano Co., 705 Traveler's Bldg.

Virginia-Carolina Chemical Co.

W. Va., Fairmont

Fairmont Chemical Co.

Acid, Sulphuric, C.P.*Colo., Denver*

Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

N. Y., Buffalo

Contact Process Co.

N. Y., New York City

*Beer, Sondheimer & Co., 61 Broadway

Cooper & Co., Charles, 194 Worth St.

Kalbfleisch Corporation, 31 Union Sq., W.

Acid, Sulphuric, Fuming*Colo., Denver*

Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Mass., Boston

Merrimac Chemical Co.

Mo., St. Louis

Commercial Acid Co., 1906 Boatman's Bank Bldg.

Lambert Chemical Co., Railway Exchange Bldg.

Monsanto Chemical Works, 2nd St. and LaFayette Ave.

N. Y., Buffalo

Contact Process Co., Abbott Road, near Lee

N. Y., New York City

*Alexander & Co., C. S., 61 Broadway

Butterworth-Judson Co., 61 Broadway

General Chemical Co., 25 Broad St.

New Jersey Zinc Co., 160 Front St.

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Philadelphia

Penna. Salt Mfg. Co.

Acid, Sulphurous (*see also Sulphur Dioxide*)*Cal., San Francisco*

Braun-Knecht-Heimann Co., 584 Mission St.

England, London

Berk & Co., F. W., Fenchurch Ave.

Md., Baltimore

Hancock & Son, John F., 4 S. Howard St.

N. J., Bound Brook

King Chemical Co.

N. Y., New York City

American Cyanamid Co., 511 Fifth Ave.

*Beggs & Co., E. J., 92 William St.

Butterworth-Judson Corp., 61 Broadway

Cooper & Co., Chas., 194 Worth St.

Klipstein & Co., A., 644 Greenwich St.

Williamson & Co., Inc., D. D., 86 Fulton St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Scotland, Glasgow

Gemmell & Co., Wm. N., 142 Queen St.

G 8965

Acid, Sulphurous, Liquefied Anhydrous*Wis., Marinette*
Ansul Chemical Co. •**Acid, Tannic***England, Manchester*
Willcocks & Co., Ltd., H. S., 5 Beaver St.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

United Indigo & Chemical Co., 176 Federal St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2nd St.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., Hastings-on-Hudson

*Zausser & Co.

N. Y., Long Island City

Oakes Mfg. Co.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

*Bredt & Co., F., 240 Water St.

Edgertyn Aniline Corp., 118 William St.

Hoffman-La Roche Chemical Co., 440 Washington St.

Holliday, Read & Sons, Ltd., 160 Franklin St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Kalle & Co., 530 Canal St.

*Ketchum & Co., 65 Fulton St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Pl.

*Pfizer & Co., Charles, 81 Maiden Lane
Southern Oil & Chemical Co., 15 Park Row

Squibb & Sons, E. R., 82 Beckman St.

*Van Brunt & Co., Inc., J. A., 114 John St.

Warner Chemical Co., 52 Vanderbilt Ave.

White Tar Co., 4 Cliff St.

United Aniline & Chemical Works, Inc., 377 Broadway

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Philadelphia

*Andreykovicz & Dunk, 58 N. Front St.

Harner Laboratories Co., 1704 Market St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Smith, Kline & French Co.

Pa., Pittstown

Luzerne Chemical Co.

R. I., Providence

Arnold, Hoffman & Co.

*Lewis, John D.

Acid, Tartaric*Cal., San Francisco*

American Cream Tartar Co., 624 California St.

Stauffer Chemical Co.

England Accrington

Phoenix Chemical Co., Ltd., Jackson St., Church

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

*Walter Co., Edw., J., 803 American Bldg.

Mass., Boston

United Indigo & Chemical Co., 176 Federal St.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Alexander & Co., Inc., C. S., 61 Broadway

*Bredt & Co., F., 240 Water St.

Edgertyn Aniline Corp., 118 William St.

*Herrick-Voigt Chemical Corporation,

1 Liberty St.

Holliday, Read & Sons, Ltd., 160 Franklin St.

*Husking, Inc., Chas. L., 5 Platt St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Ketchum & Co., 65 Fulton St.

*Klipstein & Co., A., 644 Greenwich St.

*Lathrop & Co., Inc., H. R., 200 Water St.

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

Merck & Co., 45 Park Pl.

Pfizer & Co., Inc., Chas., 81 Maiden Lane

Tartar Chemical Co., 135 William St.

*Tennant Sons & Co., C., 100 William St.

White Tar Co., 4 Cliff St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

Pa., Easton

Baker & Adamson Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

R. I., Providence

Arnold, Hoffman & Co.

*Lewis, John D.

G 8965

Acid, Titanic (Meta)*Pa., Philadelphia*

*Thomas, Arthur H., Co., W. Washington Sq.

Acid, Toluic (o)*N. Y., New York City*

Merck & Co., 45 Park Pl.

Acid, Trichloracetic*Pa., Philadelphia*

Powers-Weightman-Rosengarten Co.

Acid, Tungstic*Colo., Boulder*

Black Metal Reduction Co.

Tungsten Products Co.

Colo., Denver

U. S. Rare Minerals Co.

Del., Wilmington

Mineral Products Mfg. Co., Inc.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Lavino & Co., E. J., Bullitt Bldg.

Pa., Primos

Primos Chemical Co.

Acid, Valeric*Del., Wilmington*

Hercules Powder Co., 10th and Market Sts.

N. Y., New York City

General Chemical Co., 25 Broad St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Acid, White*N. Y., Brooklyn*

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

General Chemical Co., 25 Broad St.

Acid, Wood*Mo., St. Louis*

*Salzgeber, George H., 109 St. George St.

N. Y., Binghamton

Corbett & Co., M. J.

Corbett & Stuart

N. Y., Methol

Leighton Co., Arthur

Pa., Susquehanna

Pennsylvania Chemical Co.

Wayne Chemical Co.

Acid, Yellow (Wool)*N. Y., New York City*

*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Acids, Coal Tar, Crude*N. Y., New York City*

National Aniline & Chemical Co., Inc., 21 Burling Slip

Acids, Mineral*Ohio, Cincinnati*

Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Adhesives*Conn., Danbury*

Connecticut Glue Co.

Ill., Chicago

Armour Glue Works, 3130 Benson St.

Clarkson Glue Co., 3259 Shelds Ave.

Cudahy Packing Co.

Darling & Co., Union Stock Yards

Hirsh, Hall & Co., 111 W. Washington St.

Morris & Co., Union Stock Yards

National Glue Co., Railway Exchange Bldg.

Swift & Co., Union Stock Yards

Union Casein Co., 601 W. 80th St.

Wilson & Co., 41st and Ashland Ave.

Md., Baltimore

Bloede Co., Victor G.

Mass., Ayer

Feculose Co. of America

Mass., Boston

Carter's Ink Co., 1st and Athenaeum Sts.

Commonwealth Glue Co., 40 N. Market St.

Mass., Gloucester

Russia Cement Co.

Mo., St. Louis

American Glue Co., 410 Elm Ave.

Reardon Glue Mfg. Co., 127 Clinton St.

N. Y., New York City

Arabol Mfg. Co., 100 William St.

Casein Mfg. Co., 13 Park Row

Milligan & Higgins Glue Co., 222 Front St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

National Glue & Gelatine Works, 2 West End Ave.

National Gum & Mica Co., 59th and 11th Ave

Peter Cooper's Glue Factory, 28th and 11th Ave.

Ohio, Cincinnati

Adhesive Products Mfg. Co., 1724 Central Ave.

Aerolacq*N. Y., New York*

Chemical Co. of America, 28 Platt St.

Agar Agar*Cal., San Francisco*

Dill-Crosett, Inc., 235 Pine St.

N. Y., New York City

*American Trading Co., 25 Broad St.

*Eimer & Amend, 205-211 Third Ave.

*Halle-Perris Trading Corporation, 24 State St.

*Huisling, Inc., Chas. L., 5 Platt St.

*Klipstein & Co., A., 544 Greenwich St.

*Lehn & Fink, Inc., 120 William St.

*McKesson & Robbins, Inc., 91 Fulton St.

Mitsui & Co., 25 Madison Ave.

National Gum & Mica Co., 59th and 11th Ave.

*Rockhill & Vietor, 22 Cliff St.

*Schieffelin & Co., 170 William St.

*Zinkeisen & Co., 135 William St.

Pa., Philadelphia

*Smith, Kline & French Co.

Albasol*N. J., Harrison*

National Oil Products Co., Essex and First Sts.

Alboline*N. Y., New York City*

McKesson & Robbins, Inc., 91 Fulton St.

Albumen*Cal., San Francisco*

American Trading Co.

Dill-Crosett, Inc.

Ill., Chicago

Armour Fertilizer Works, Union Stock Yards

Mass., Boston

United Indigo & Chemical Co., 176 Federal St.

Mich., Detroit

Digestive Ferments Co.

N. Y., New York City

Arabol Mfg. Co., 100 William St.

*Arnhold, Karberg & Co., 21 State St.

*Fuerst Bros. & Co., 2 Stone St.

*Innis, Speiden & Co., 46 Cliff St.

*Jardine, Matheson & Co., Ltd., 63 Wall St.

*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

National Milk Co., 11 Pine St.

Roessler & Hasslacher Chemical Co., 100 William St.

Ohio, Cincinnati

Berghäusen Chemical Co., E., 307 E. 2d St.

Albumin, Mayer*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Alcohol, Amyl (*see also Oils, Fusel*)*Conn., Stamford*

Celluloid Zapon Co.

Del., Wilmington

Du Pont Chemical Works

D. C., Washington

Corby Co., The

Ill., Chicago

Daigger & Co., A., 54 W. Kinzie St.

Ill., Peoria

Woolner Distilling Co.

Ind., Lawrenceburg

Rossville Co.

Walsh & Co., James

Mich., Midland

Dow Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. J., Carlstadt

Franco-American Chemical Co.

N. J., Wallington

Anderson Chemical Co.

N. Y., New York City

American Alcohol Co., Inc.

Celluloid Zapon Co., 200 5th Ave.

*Sloan & Russell, Inc., 132 Nassau St.

U. S. Industrial Alcohol Co., 27 William St.

*Van Brunt & Co., Inc., J. A., 114 John St.

*Williamson & Co., 120 Broadway

Pa., Pittsburgh

Hamburger Distillery, Limited, 706 Arrott Bldg.

Spain, Barcelona

*Sociedad Anonima Monegal

Alcohol, Amyl, Refined*Ill., Chicago*

Van Schaack Bros. Chemical Works

Alcohol, Benzyl*N. J., Bayonne*

Standard Chemical Co., W. 5th St.

N. Y., New York City

Florasynth Laboratories, Inc., 231 Pearl St.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Alcohol, Butyl*N. Y., New York City*

U. S. Industrial Alcohol Co., 27 William St.

Alcohol, Caprylic*Pa., Philadelphia*

*Thomas, Arthur H. Co., W. Washington Sq.

Alcohol, Denatured*Cal., San Francisco*

Classen Chemical Co.

D. C., Washington

Corby Co., The

Ill., Chicago

Central Commercial Co.

Ill., Peoria

Clarke Bros. & Co.

Woolner Distilling Co.

Ind. Lawrenceburg

Rossville Co.

La., New Orleans

American Alcohol Co.

Jefferson Distilling & Denaturing Co.

Md., Baltimore

Canton Corn Products Co.

N. Y., Brooklyn

*Miner-Edgar Co., 52 Warren St.

N. Y., Buffalo

Wood Products Co.

N. Y., Hancock

Kerry Co., Thomas

N. Y., New York City

Alcohol Utilities Co., 40 Exchange Pl.

*American Distributing Co., 750 Washington St.

Cooper & Co., Charles, 194 Worth St.

*Echavarria & Co., R., 8 Bridge St.

Fleischmann Co., 699 Washington St.

Georgia Pine Turpentine Co. of New York, 158 Perry St.

*Gray & Co., William S., 76 William St.

*Huisking, Inc., Chas. L., 5 Platt St.

Industrial Chemical Co., 200 Fifth Ave.

International Alcohol Corporation, 59 Pearl St.

*Salomon & Bro., L. A., 216 Pearl St.

Southern Oil & Chemical Co., 15 Park Row

Squibb & Sons, E. R., 78-80 Beekman St.

U. S. Industrial Alcohol Co., 27 William St.

Webb & Son, James A., 50 Stone St.

*Williamson & Co., 120 Broadway

Ohio, Cincinnati

*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Alcohol, Ethyl*Cal., San Francisco*

Braun-Knecht-Heimann Co., 584 Mission St.

D. C., Washington

Corby Co., The

Ill., Pekin

American Distilling Co.

Ill., Peoria

Woolner Distilling Co.

Ind., Lawrenceburg

Rossville Co.

Walsh & Co., James

Ind., Terre Haute

Commercial Distilling Co., The

La., New Orleans

American Alcohol Co.

Louisiana Distilling Co.

Md., Baltimore

Canton Corn Products Co.

Webb & Sons, A. L., 115 E. Lombard St.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., New York City

*American Distributing Co., 750 Washington St.

International Alcohol Corporation

Merck & Co., 45 Park Place

Southern Oil & Chemical Co., 15 Park Row

U. S. Industrial Alcohol Co., 27 William St.

N. Y., Waterloo

Industrial Distilling Co.

Ohio, Cincinnati

Clifton Springs Distilling Co.

Fleishmann Co., 419 Plum St.

Union Distilling Co., 3d and Race Sts.

Walsh & Co., James, Union Trust Bldg.

Ohio, Cleveland

Cleveland Cliffs Iron Co., 233 Bank St.

Harshaw, Fuller & Goodwin Co., Electric Bldg.

Wis., Milwaukee

National Distilling Co., 79 Buffalo St.

Wash., Seattle

Rainier Products Co.

Alcohol, Grain (see *Alcohol, Ethyl*)**Alcohol, Isoamyl***Del., Wilmington*

Du Pont Chemical Works

Mo., St. Louis

*Heil. Henry, Chemical Co., 210-214 S 4th St.

Merck & Co., 45 Park Place

Alcohol, Methyl*Cal., San Francisco*

Noble Electric Steel Co.

Fla., Jacksonville

Florida Wood Products Co.

Ill., Chicago

*Central Commercial Co.

Md., Baltimore

Webb & Son, A. L., 115 E. Lombard St.

Alcohol, Methyl—cont.*Mass., Boston*

*Bird & Co., J. A. & W.

Merrimac Chemical Co., 32 Broad St.

Mich., Boyne City

Boyne City Chemical Co.

Mich., Cadillac

Cadillac Chemical Co.

Cummer-Diggins Co.

Mich., Detroit

Berry Bros. (Ltd.), Leib and Weight St.

Charcoal Iron Co. of America

Lake Superior Iron & Chemical Co.,

Union Trust Bldg.

Mich., Wells

Delta Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works

N. J., Newark

Seaboard Chemical Co.

N. Y., Brooklyn

*Miner-Edgar Co., 52 Warren St.

N. Y., Buffalo

Wood Products Co.

N. Y., Hancock

Kerry Co., Thomas

N. Y., Kingston

Nitrated Chemical Co.

*N. Y., New York City**American Distributing Co., 750 Wash-
ington St.

Cooper & Co., Charles, 194 Worth St.

*Fuller & Co., Ralph L., 4 Rector St.

*Gray & Co., Wm. S., 76 William St.

Industrial Chemical Co., Fifth Ave.
Bldg.*Magnus, Maybee & Reynard, 257
Pearl St.

Merek & Co., 45 Park Place

*Salomon & Bro., L. A., 216 Pearl St.

Southern Oil & Chemical Co., 15 Park
RowU. S. Industrial Alcohol Co., 27 Wil-
liam St.

*Webb & Son, J. A., 52 Stone St.

N. Y., Niagara Falls

National Electrolytic Co.

Tionesta Valley Chemical Co.

N. Y., Waterloo

Industrial Distilling Co.

*Ohio, Cleveland*Cleveland-Cliffs Iron Co., Rockefeller
Bldg.*Harshaw, Fuller & Goodwin Co.,
Electric Bldg.*Ore., Portland*

Oregon Wood Distilling Co.

Alcohol, Phenyl Ethyl*N. J., Bayonne*

Standard Chemical Co., W. 5th St.

*N. Y., New York City*National Aniline & Chemical Co., Inc.,
21 Burling Slip**Alcohol, Solidified***N. Y., Brooklyn*

*Sternau & Co., S., 160 John St.

Alcohol, Wood (see Alcohol, Methyl)**Aldehyde (see Acetaldehyde)****Alizarine Assistant***Mass., Atlantic*

*Bosson & Lane

Mass., Boston

Avery Chemical Co., 88 Broad St.

*Leyland & Co., Thos., 60 India St.

*Shaw, John, & Co., 15 Elkins St.

United Indigo & Chemical Co., Ltd.,
176 Federal St.*N. J., Harrison*

National Oil Products Co.

*N. J., Passaic*Wolf, Jacques & Co., 342 Lexington
Ave.*N. Y., New York City*

Arabol Mfg. Co., 100 William St.

*Klipstein & Co., A., 644 Greenwich
St.*Kuttruff, Pickhardt & Co., Inc., 128
Duane St.Marden, Orth & Hastings Corp'n, 61
Broadway*Pa., Philadelphia*

*Ferguson Bros., 109 Chestnut St.

R. I., Providence

Arnold, Hoffman & Co.

**Alizarine Colors (see Colors and Dye-
stuffs)****Alizarine Derivative***Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Alizarine, Dry***Ill., Chicago*Research Laboratory of Chicago,
467 E. Ontario St.**Alizarine Paste***Pa., Philadelphia*

Harmer Laboratories Co.

Alkali, Pure, 85%*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Va., Saltville

Mathieson Alkali Works, Inc., The

Alkali, Tanners*Mich., Wyandotte*

Ford Co., J. B.

Ill., Chicago

Abbott Laboratories, Ravenswood

N. J., Maywood

Shaefer Alkaloid Works

N. Y., New York City

McKesson & Robbins, Inc., 91 Fulton St.

New York Quinine & Chemical Works, Ltd., 114 William St.

N. Y., Norwich

Norwich Pharmacal Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Shoemaker & Co., Robt., 201 N. 4th St.

Alkalies (see also Soda, Sodium Hydroxide, Potassium Hydroxide)*Cal., San Francisco*

California Alkali Co.

England, Liverpool

United Alkali Co., Ltd.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

Thomsen Chemical Co., Race and Winder Sts.

Mass., Boston

*Linder & Meyer, 89 State St.

Mich., Detroit

Michigan Alkali Co., 1622 Ford Bldg.

Mich., Midland

Dow Chemical Co.

Mich., Wyandotte

Michigan Alkali Co.

N. J., Jersey City

Seydel Mfg. Co., 86 Forrest St.

N. Y., Albany

Wander & Son Chemical Co., S., 135 Church St.

N. Y., New York City

Butterworth-Judson Corp., 61 Broadway

*Fuerst Bros. & Co., 214 Stone St.

General Chemical Co., 25 Broad St.

Hooker Electrochemical Co.

Innis, Speiden & Co., Inc., 46 Cliff St.

National Aniline & Chemical Co., 244 Madison Ave.

Roessler & Hasslacher Chemical Co., 100 William St.

Warner Chemical Co., 52 Vanderbilt Ave.

N. Y., Niagara Falls

Niagara Smelting Corp.

Castner Electrolytic Alkali Co.

N. Y., Syracuse

Solvay Process Co.

Ohio, Cincinnati

Globe Chemical Co., Murray Rd.

*Winkler & Bro., Isaac, 1st National Bank Bldg.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co.

Pa., Pittsburgh

Columbia Chemical Co.

Diamond Alkali Co., 1st National Bank Bldg.

R. I., Providence

Arnold, Hoffman & Co.

Scotland, Glasgow

Barr, Ltd., James C., 27, Blythwood Sq.

Va., Saltville

Mathieson Alkali Works

W. Va., Charleston

Rollin Chemical Co., Inc.

Alkaloids*England, London, E. C. 3*

Berk & Co., Ltd., F. W., 1 Fenchurch Ave.

Ind., Indianapolis

Eli Lilly & Co.

Ill., Chicago

Abbott Laboratories, Ravenswood

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

Monsanto Chemical Works

N. Y., New York City

Merck & Co., 45 Park Place.

New York Quinine & Chemical Works, Inc., 100 William St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

ALLOYS**Aluminium Alloys***Mass., Boston*

Richards & Co., 200 Causeway St.

N. Y., Lockport

Electric Smelting & Aluminum Co.

N. J., Newark

Acieral Co. of America

Aluminium Bronze*Ohio, Marietta*

Northwestern Chemical Co., The

N. Y., Lockport

Electric Smelting & Aluminum Co.

N. Y., Niagara Falls

Titanium Alloy Mfg. Co.

Alumino-Vanadium*Pa., Pittsburgh*

American Vanadium Co., Vanadium Bldg.

Standard Chemical Co.

Pa., Primos

Primos Chemical Co.

Calcium Alloys

N. Y., Niagara Falls
American Magnesium Corporation

Cerium Alloys

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Copper Alloys

N. Y., Lockport
Electric Smelting & Aluminum Co.

Cupro-Magnesium

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Cupro-Manganese-Vanadium

Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.

Cupro-Vanadium

Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg. •

Pa., Primos
Primos Chemical Co.

Ferro Alloys (see also *Specific Headings*)
Canada, Que., Shawinigon Falls

Canadian Ferro-Alloys Co.

N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Crowley Co., John A., 120 Liberty St.
Goldschmidt-Thermit Co., 120 Broadway

N. Y., Niagara Falls
Titanium Alloy Mfg. Co.

Ohio, Cincinnati
Walter-Wallingford & Co.

Ohio, Cleveland
Cleveland Brass Mfg. Co.

Pa., Philadelphia
American Manganese Mfg. Co.
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh
American Vanadium Co.
Standard Alloys Co.
Vanadium Metals Co.

Ferro-Carbon-Titanium

N. Y., Niagara Falls
Titanium Alloy Mfg. Co.

Ferro-Cerium

N. Y., New York City
Electric Reduction Co.
New Process Metals Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Ferro-Chrome

Cal., San Francisco
Noble Electric Steel Co., Hewes Bldg.
D. C., Washington
Capital Chemical Co., 621 Alabama Ave.

N. Y., New York City
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.

Ferro-Chromium

Cal., San Francisco
Noble Electric Steel Co.
Canada, Ont., Welland
Electro Metals, Ltd.
Iowa, Keokuk
Keokuk Electro Metals Co.
Pa., Montour Junction
Pittsburgh Metallurgical Co.

Ferro-Manganese

Cal., San Francisco
Noble Electric Steel Co.
Pacific Electro-Metals Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Anaconda Copper Mining Co.
Electric Reduction Co.,
*Klipstein & Co., A., 644 Greenwich St.
New Jersey Zinc Co., 55 Wall St.
Ohio, Cincinnati
Walter-Wallingford & Co.
Oregon, Portland
Western Reduction Co.
Pa., Philadelphia
Foote Mineral Co., 130 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Wash., Tacoma
Bilrowe Alloys Co.

Ferro-Manganese, 80%

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Ferro-Manganese, Low Carbon

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Ferro-Molybdenum

Cal., Los Angeles
Southern Reduction Co.
Canada, Orillia, Ontario
International Molybdenum Co., Ltd.
D. C., Washington, Congress Heights
Capital Chemical Co., 621 Alabama Ave.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Primos
Primos Chemical Co.

Ferro-Phosphorus*N. Y., New York City*

*Leavitt & Co., C. W., 30 Church St.

Ferro-Silicon*Cal., San Francisco*

Noble Electric Steel Co.

Canada, Ont., Welland

Electro Metals, Ltd.

Iowa, Keokuk

Keokuk Electro Metals Co.

Md., Baltimore

Shawinigan Electro Products Co.

Mass., Cambridge

Exlon Co., The, 156 Sixth St.

N. Y., New York City

Electric Reduction Co.

*Klipstein & Co., A., 644 Greenwich St.

Pa., Duquesne

Carnegie Steel Co.

Pa., Montour Junction

Pittsburgh Metallurgical Co.

Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Tenn., Chattanooga

Southern Ferro-Alloys Co.

Ferro-Silicon-Aluminium*N. Y., New York City*

*Leavitt & Co., C. W., 30 Church St.

Ferro-Titanium*N. Y., New York City*

Goldschmidt Thermit Co., 120 Broadway

Klipstein & Co., A., 644 Greenwich St.

N. Y., Niagara Falls

Titanium Alloy Mfg. Co.

Ferro-Tungsten*Colo., Boulder*

Tungsten Products Co.

Del., Wilmington

Mineral Products Mfg. Co., Inc.

D. C., Washington, Congress Heights

Capital Chemical Co., 621 Alabama Ave.

Md., Baltimore

Tungsten Products Co. of Maryland

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

Electric Reduction Co.

Electro-Metallurgical Co., 42d St. Bldg.

Goldschmidt Thermit Co., 120 Broadway

*Klipstein & Co., A., 644 Greenwich St.

Virginia Electrolytic Co., 99 Cedar St.

Pa., Latrobe

Hudson Reduction Co.

Pa., Philadelphia

Shimer & Co., H. M.

Pa., Pittsburgh

Vanadium Alloy Steel Co.

Pa., Primos

Primos Chemical Co., Inc.

Ferro-Uranium*N. Y., New York City*

Electric Reduction Co.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Pa., Pittsburgh

Standard Alloys Co., Forbes and Meyren Aves

Standard Chemical Co

Ferro-Vanadium*N. Y., New York City*

Electric Reduction Co

Goldschmidt Thermit Co., 120 Broadway

*Klipstein & Co., A., 644 Greenwich St.

Pa., Philadelphia

Foote Mineral Co., Inc., 120 N. 19th St.

Pa., Pittsburgh

American Vanadium Co., Vanadium Bldg.

Basic Products Co.

Standard Alloys Co., Forbes and Meyren Aves.

Standard Chemical Co.

Pa., Primos

Primos Chemical Co.

Ferro-Zirconium*Pa., Philadelphia*

Foote Mineral Co., 120 N. 19th St.

Manganese Alloys*N. Y., Lockport*

Electric Smelting & Aluminum Co.

N. Y., Niagara Falls

American Magnesium Corporation

Manganese-Aluminium*N. Y., New York City*

Metal & Thermit Corporation, 120 Broadway

Manganese-Bronze*Pa., Philadelphia*

Ajax Metal Co.

Manganese-Copper*Mass., Boston*

Richards & Co., Inc., 200 Causeway St.

N. Y., New York City

Metal & Thermit Corporation

Pa., Philadelphia

Ajax Metal Co.

Manganese-Titanium*N. Y., New York City*

Metal & Thermit Corporation, 120 Broadway

Monel Metal*N. Y., New York City*

International Nickel Co., 43 Exchange Place

Nickel Alloys

N. Y., Lockport
Electric Smelting & Aluminum Co.

Nickel-Copper, 50/50%

N. Y., New York City
Goldschmidt-Thermit Co., 120
Broadway

Non-ferrous Alloys

Pa., Philadelphia
Ajax Metal Co.

Phosphor-Bronze

Conn., New Haven
United Smelting & Aluminum Co., Inc.
Conn., Waterbury
The American Brass Co
Ill., Chicago

Globe Metal Co., 1970 Clybourn Ave.
N. J., Riverside
Riverside Metal Co.

N. Y., New York City
Hungerford Brass & Copper Co. U. T.,
84 LaFayette St
Nassau Smelting & Refining Works,
Ltd., 605 W. 29th St

Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
North American Smelting Co., 9th
and Thompson St.

Pa., South Bethlehem
Bethlehem Steel Co.

Phosphor-Copper

Mass., Boston
Richards & Co., Inc., 200 Causeway St.

N. Y., Lockport
Electric Smelting & Aluminum Co

N. Y., New York City
Coignet Chemical Products Co., Inc.,
17 State St.
Metal & Thermit Corporation, 120
Broadway.
North Atlantic Metal Corporation, 29
Broadway

Phosphor-Tin

Mass., Boston
Richards & Co., Inc., 200 Causeway St

N. Y., Lockport
Electric Smelting & Aluminum Co

N. Y., New York City
Metal & Thermit Corporation, 120
Broadway
North Atlantic Metal Corporation, 29
Broadway

Phosphorus Alloys

N. Y., Lockport
Electric Smelting & Aluminum Co

Silicon Alloys

N. Y., Lockport
Electric Smelting & Aluminum Co.

Silicon-Calcium-Aluminum

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Silicon-Copper

N. Y., New York City
Metal and Thermit Corporation, 120
Broadway

Silicon-Chromium

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Silicon-Manganese-Aluminum

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Silico-Manganese

Cal., San Francisco
Pacific Electro-Metals Co.

N. Y., New York City
*Leavitt & Co., C. W., 39 Church St.

Silico-Spiegel

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Spiegeleisen

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Steel Alloys

Mass., Fitchburg
Simonds Mfg. Co.

Mich., Detroit
Ford Motor Co.

N. Y., Syracuse
Halecomb Steel Co.

Ohio, Canton
United Alloy Steel Corporation

Pa., Bridgeville
Universal Rolling Mill Co.

Pa., Latrobe
Vanadium Alloys Steel Co.

Pa., Washington
Electric Reduction Co.

Vanadium-Copper

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Alpha, Naphtholbenzene

Pa., Philadelphia
Harmer Laboratories Co., 1704 Mar-
ket St

Alum (Filter)

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.

Ohio, Cleveland
Grasselli Chemical Co.

Ohio, Sandusky
Jarecki Chemical Co.

Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener
Bldg.

Alum (Papermakers)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.

Ohio, Sandusky
Jarecki Chemical Co.

Alum (Sizing)*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ohio, Cleveland

Grasselli Chemical Co.

Alum, Ammonia*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., 54 W. Kinzie St.

N. Y., New York City

American Smelting & Refining Co., 120

Broadway

Edgertyn Aniline Corp., 118 William St.

General Chemical Co., 25 Broad St.

*Fuerst Bros. & Co., 2 Stone St.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., Widener Bldg.

Utah, Salt Lake City

American Smelting & Refining Co.

Alum, Ammonia, U.S.P. (Crystals)*England, Manchester*

Spence & Sons, Ltd., Peter

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Alum, Chromium*Mass., Boston*

Avery Chemical Co., 88 Broad St.

Merrimac Chemical Co., 32 Broad St.

Mo., St. Louis

Commercial Acid Co., 1916 Boatman's Bank Bldg.

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

*Bischoff & Co., C., 451 Washington St.

*Campbell, C. W., 95 Cliff St.

Cooper & Co., Charles, 194 Worth St.

*Fuller & Co., Ralph, 4 Rector St.

General Chemical Co., 25 Broad St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Katzenbach & Bullock Co., Inc., William and John Sts.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Roessler & Hasslacher Chemical Co., 100 William St.

*Tennant Sons & Co., C., 100 William St.

N. Y., Niagara Falls

National Electrolytic Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., 1000 Widener Bldg.

*R. I., Providence*Arnold, Hoffman & Co., 55 Canal St.
Industrial Chemical Co.**Alum, Potassium** (*see Potassium Aluminum Sulphate*)**Alumina** (*see Aluminium Oxide*)**Aluminium, Metal***Conn., New Haven*

United Smelting & Aluminum Co.

Ill., Chicago

Great Western Smelting & Refining Co.

Illinois Smelting & Refining Co.

Ind., East Chicago

U. S. Reduction Co.

Ill., Le Mont

Illinois Pure Aluminum Co.

Mich., Detroit

Michigan Smelting & Refining Works

N. Y., Lockport

Electric Smelting & Aluminum Co.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

*Beer, Sondheimer & Co., 61 Broadway

*Leavitt & Co., 30 Church St.

Nassau Smelting & Refining Works, 605 W. 29th St.

Ohio, Cleveland

National Smelting Co., 6800 Grant Ave.

Pa., Philadelphia

Janney, Steinmetz & Co., 1421 Chestnut St.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.

Northern Aluminum Co., Ltd., 2344 Oliver Bldg.

Aluminium, Dust*Cal., Oakland*

Butters, Charles

Aluminium, Granulated*N. Y., New York City*

Harshaw, Fuller & Goodwin Co.

Aluminium, Ingot*Ill., Aurora*

Jobbins, Inc., Wm. F., 923 N. Lake St.

Aluminium, Powdered*N. Y., New York City*

Harshaw, Fuller & Goodwin Co.

Aluminium Acetate*England, Manchester*

Robinson & Co., H. F., Newton Heath

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Klipstein & Co., A., 644 Greenwich St.

Aluminium Alloys (*see Alloys*)**Aluminium Carbide***N. Y., New York City*

General Chemical Co., 25 Broad St.

Merck & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

Squibb, E. R. & Sons, 84 Beekman St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Aluminium Carbide—cont.*Pa., Philadelphia*

Pennsylvania Salt Mfg. Co., Widener Bldg.

*Thomas, Arthur H., Co., W. Washington Square

Aluminium Carbonate*N. Y., Brooklyn*

Wiarda & Co., John C., 273 Green St.

Aluminium Chloride*Mass., Boston*

Avery Chemical Co., 88 Broad St.

Cochrane Chemical Co., 40 Central St.

Merrimac Chemical Co., 32 Broad St.

Mass., Worcester

Marble & Co., J. Russell

Mich., Midland

Dow Chemical Company

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

General Chemical Co., 25 Broadway

Kalbfleisch Corporation, 31 Union Sq., W.

Katzenbach & Bullock Co., 100 William St.

*Kuttruff, Pickhardt & Co., Inc., 128 Duane St.

Rector Chemical Co., 2 Rector St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Waldo, E. M. & F., 11 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.*N. Y., Niagara Falls*

Niagara Alkali Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co.

Aluminium Chloride Solution, 30°*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Aluminium Formate*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Aluminium Hydrate (see Aluminium Hydroxide)**Aluminium Hydroxide***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Stresen-Reuter & Hancock, Inc., 122 S. Michigan Ave.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Warner Chemical Co., 52 Vanderbilt Ave.

Pa., Pittsburgh

Vitro Mfg. Co., 720 Bessemer Bldg.

Aluminium Oleate*N. J., Harrison*

National Oil Products Co., Essex and First Sts.

N. Y., New York City

*Sloan & Russell, Inc., 132 Nassau St.

Aluminium Oxide*N. J., Trenton*

Utah Potash Co.

Pa., Philadelphia

General Chemical Co., Lafayette Bldg.

Pennsylvania Salt Mfg. Co., 115 Chestnut St.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St

Va., Petersburg

Southern Chemical Co.

Aluminium Palmitate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Harrison

National Oil Products Co., Essex and First Sts.

N. Y., New York City

*Sloan & Russell, 132 Nassau St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Aluminium Palmitate, Fused*N. Y., New York City*

*Sloan & Russell, Inc., 132 Nassau St.

Aluminium Phosphate*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Aluminium Resinate*N. J., Harrison*

National Oil Products Co., Essex and First Sts.

Aluminium Resinate, Prec.*N. Y., New York City*

Harshaw, Fuller & Goodwin Co.

Aluminium Stearate*N. J., Harrison*

National Oil Products Co., Essex and First Sts.

N. Y., New York City

*Klipstein & Co. A., 644 Greenwich St.

*Sloan & Russell, Inc., 132 Nassau St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Meyer & Sons, J., 480 Bourse Bldg.

Aluminium Sulphate*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

England, Manchester

Spence & Sons, Ltd., Peter

England, Widnes

Alumina Co., Ltd.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Aluminium Sulphate—cont.*Md., Baltimore*

*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.

Mass., Boston

Cochrane Chemical Co.
Merrimac Chemical Co.
New England Gas & Coke Co.

Mich., Detroit

Detroit Chemical Works, 238 Junction Ave.

Mich., Menominee

*Michigan Electrochemical Co., N. State St.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

American Agricultural Chemical Co., 2 Rector St.

American Coal Products Co., 17 Battery Place

Butterworth-Judson Corp., 61 Broadway

Chemical Co. of America, Inc.

Cooper & Co., Charles, 194 Worth St.

General Chemical Co., 25 Broad St.

Kalbfleisch Corp., 31 Union Square

Katzenbach & Bullock Co., 100 William St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

Southern Oil & Chemical Co., 15 Park Row

Squibb & Son, E. R., 82 Beekman St.

*Tennant Sons Co., C., 100 William St.

White Tar Co., 6 Cliff St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cincinnati

Jarecki Chemical Co.

*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Ohio, Cleveland

Grasselli Chemical Co.

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., Widener Bldg.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blythswood Square

Aluminium Sulphate, Commercial Tech.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Cooper & Co., Charles, 194 Worth St.

Aluminium Sulphate, Pure Cryst, Tech.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Cooper & Co., Charles, 194 Worth St.

Aluminium Sulphite*Ill., Aurora*

Jobbins, Inc., Wm. F., 923 N. Lake St.

Aluminium Sulphocyanate*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Aluminium Tungstate*N. Y., New York City*

*Sloan & Russell, Inc., 132 Nassau St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Aluminum (see Aluminium Metal)**Amber, Synthetic***Ill., Chicago*

Redmanol Chemical Products Co., 626 W. 22d St.

Amidoazobenzene*Pa., Philadelphia*

Harmer Laboratories Co.

Amidodimethylaniline Base. C. P.-p.*Ill., Chicago*

Research Laboratory of Chicago, 467 E. Ontario St.

Amidol (see Diamidiphenol)**Amidopyrine***N. Y., New York City*

*Fougere, E. & Co., 90 Beekman St.

Amidophenol, Di*N. Y., New York City*

Rector Chemical Co., Inc., 2 Rector St.

Amidophenol Diacetyl, Para*N. Y., New York City*

Chemical Co. of America, 176 Front St.

Amidophenol Hydrochloride, Para*N. Y., New York City*

Chemical Co. of America, Inc., 176 Front St.

New Jersey Products, Inc., 165 Broadway

Rector Chemical Co., Inc., 2 Rector St.

Wright Chemical Corporation, 38 Park Row

Amidophenol, Ortho*N. J., Jersey City*

Seydel Mfg. Co., Forrest and Halliday Sts.

Amidophenol, Para*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Mass., Boston

Atlantic Dyestuff Co., 88 Ames Bldg.

N. J., Elizabeth

Bayway Chemical Co.

N. J., Jersey City

Seydel Mfg. Co., Forrest and Halliday Sts.

N. Y., Hastings-on-Hudson

*Zinsser & Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Barrett Co., 17 Battery Place

Berlin Aniline Works, 213 Water St.

Chemical Co. of America, 176 Front St.

*Drug & Dyestuff Corp., 120 Broadway

Empire Chemical Co., 149 Broadway

Klipstein & Sons Co., E. C., 644 Greenwich St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Rector Chemical Co., Inc., 2 Rector St.

Wright Chemical Corporation, 38 Park Row

N. Y., North Tonawanda

Synthetic Products Co., Inc

Pa., Lock Haven

Stanley Aniline Chemical Works, Inc.

Amidophenol Sulphate, Mono-Methyl-Para*N. Y., New York City*

Rector Chemical Co., Inc., 2 Rector St.

Ammonia*Ala., Birmingham*

Gulf States Steel Co., Brown-Marx Bldg.

Tennessee Coal, Iron & R. R. Co.

Ala., Woodward

Woodward Iron Co.

Cal., Los Angeles

Bobrick Chemical Co., 111 117 S Garey St.

Colo., Denver

Colorado Fuel & Iron Co., Boston Bldg.

Western Chemical Mfg. Co.

Ill., Aurora

Coal Products Mfg. Co.

Ill., Chicago

Armour & Co.

By-Products Coke Corp.

*Daigger & Co., A., 54 W. Kinzie St

Illinois Steel Co., 208 S. LaSalle St.

Inland Steel Co.

Morris & Co.

Ill., Waukegan

North Shore Gas Co.

Ind., Indianapolis

Citizens Gas Co., Majestic Bldg.

Ind., Linton

Linton Gas Co.

Ind., Muncie

Central Indiana Gas Co.

Ind., Terre Haute

Indiana Coke & Gas Co.

Md., Baltimore

Thomson Chemical Co.

Mass., Boston

Merrimac Chemical Co., 33 Broad St.

New England Fuel & Trans. Co., 111 Devonshire St.

Mich., Detroit

Michigan Ammonia Works

Michigan Carbon Works

Mich., Wyandotte

Michigan Alkali Co.

Minn., Duluth

Minnesota Steel Co., Morgan Park Sta.

Minn., St. Paul

Minnesota By-Product Coke Co.

Minn., West Duluth

Zenith Furnace Co.

Mo., St. Louis

Laclede Gas Light Co., 1017 Olive St.

N. J., Jersey City

Seaboard By-Product Coke Co.

N. J., Newark

Camden Coke Co., Broad and Bank Sts.

Listers Agricultural Chemical Works

N. Y., Buffalo

Buffalo Union Furnace Co.

Contact Process Co.

N. Y., Lackawanna

Lackawanna Steel Co.

N. Y., New York City

American Agricultural Chemical Co., 2 Rector St.

American Cyanamid Co., 511 5th Ave.

Barrett Co., 17 Battery Place

Cooper Co., Charles, 194 Worth St.

General Chemical Co., 25 Broad St.

Niagara Coke Corp., 6 Church St.

N. Y., Syracuse

Semet-Solvay Co.

N. Y., North Tonawanda

Riverside Chemical Co., 1194-96 Oliver St.

Ohio, Cincinnati

*Drackett & Sons Co., P. W. 5020 Spring Grove Ave.

Ohio, Cleveland

American Steel & Wire Co., Western Reserve Bldg.

Dover By-Product Coke Co., Leader-News Bldg.

Grasselli Chemical Co.

Ammonia—cont.**Ohio, Cleveland—cont.**

Harshaw, Fuller & Goodwin Co.
 River Furnace Co.
 Toledo Furnace Co., Western Reserve Bldg.
 United Furnace Co., Western Reserve Bldg.

Ohio, Hamilton

Hamilton-Otto Coke Co.

Ohio, Youngstown

Brier Hill Steel Co.
 Republic Iron & Steel Co., Republic Bldg.
 Youngstown Sheet & Tube Co.

Ohio, Steubenville

La Belle Iron Works

Pa., Chester

Philadelphia Suburban Gas & Electric Co.

Pa., McKeesport

Alleghany By-Product Coke Co.

Pa., Philadelphia

Bower Chemical Mfg. Co., Henry, Grays Ferry Rd. and 29th St.
 Cambria Steel Co., Widener Bldg.
 Clawson Co., 240 Chestnut St.
 Midvale Steel & Ordnance Co., Widener Bldg.
 United Gas Improvement Co.

Pa., Pittsburgh

Carnegie Steel Co.
 National Tube Co., Frick Bldg.

Pa., South Bethlehem

Bethlehem Steel Co.

Tenn., Chattanooga

Chattanooga Gas & Coal Product Co.

Va., Richmond

Va.-Carolina Chemical Co.

Wash., Seattle

Seattle Lighting Co., 360 Stuart Bldg.

Wis., Milwaukee

Milwaukee Coke & Gas Co.
 Northwestern Iron Co., First National Bank Bldg.

England, Smithy Bridge, near Rochdale
 Dearhead Chemical Co.

Ammonia Alum, U. S. P. (see

Alum, Ammonia, U. S. P.)

Ammonia, Anhydrous**Canada, Toronto, Ontario**

Canadian Ammonia Co., Ltd., Heward Ave.

Colo., Denver

Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Ill., Chicago

Armour Glue Works, 137 LaSalle Ave.
 Morris & Co., Union Stock Yards

Md., Baltimore

*McCormick & Co., 722 E. Pratt St.

Mass., Boston

Cochrane Chemical Co., 40 Central St.

Merrimac Chemical Co., 32 Broad St.

New England Gas & Coke Co.

Mich., Detroit

Michigan Ammonia Works, Meldrum St.

Mo., St. Louis

National Ammonia Co., 3600 N. Broadway

N. Y., New York City

American Cyanamid Co., 511 5th Ave.

General Chemical Co., 25 Broad St.

Cooper & Co., Chas., 194 Worth St.

*Katzenbach & Bullock Co., 100 William St.

National Ammonia Co., 30 Platt St.
 Roessler & Hasslacher Chemical Co., 100 William St.

*Schwenker, Inc., W. M., 340-344 E. 92d St.

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Carbondale

Carbondale Calcium Co.

Pa., Philadelphia

Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Road
 National Ammonia Co., Van Kirk and Delaware River

Ammonia, Aqua (see Ammonium Hydroxide and Ammonia)**Ammoniates, Fertilizer****Ill., Chicago**

Armour Fertilizer Works, Union Stock Yards

Swift & Co., Union Stock Yards
 Wilson & Co., 41st and Ashland Ave.

Va., Richmond

Virginia-Carolina Chemical Co.

Wash., Seattle

American Nitrogen Products Co.

Ammonium Acetate**N. Y., New York City**

*Klipstein & Co., A., 644 Greenwich St.

Ammonium Benzoate**N. Y., New York City**

Lehn & Fink, Inc., 120 William St.

Ammonium Bicarbonate**N. Y., New York City**

Barrett Co., Battery Place

N. Y., Syracuse

Semet Solvay Co.

Ammonium Bifluoride*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Ammonium Borate*N. Y., New York City*

Pacific Coast Borax Co., 100 William St.

Ammonium Bromide*Mich., Midland*

Dow Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

*N. Y., New York City**Baker, H. J. & Bro., 81 Fulton St.
Cooper & Co., Chas., 194 Worth St.
Heyden Chemical Works, 135 William St.

Merek & Co., 45 Park Pl.

Southern Oil & Chemical Co., 15 Park Row

*Wood, Inc., J. Early, 21 Platt St.

Pa., Easton

Baker & Adamson Chemical Co.

W. Va., Malden

Dickinson Co., J. Q.

Ammonium Carbonate*Canada, Toronto, Ontario*

Canadian Ammonia Co., Ltd., Howard Ave.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.*Md., Baltimore*

*Walter Co., Edward J., 803 American Bldg.

Mich., Detroit

Michigan Ammonia Works, Meldrum St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*American Agricultural Chemical Co.
Edgertyn Aniline Corp., 118 William St.*Huisking, Inc., Chas. L., 5 Platt St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.

Mallinckrodt Chemical Works

McKesson & Robbins, Inc., 91 Fulton St.

Merek & Co., 45 Park Pl.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Powers-Weightman-Rosengarten Co.
Roessler & Hasslacher Chemical Co., 100 William St.

Southern Oil & Chemical Co., 15 Park Row

Squibb & Sons, E. R., 82 Beekman St.

*Van Brunt & Co., Inc., J. A., 114 John St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.

Pa., Philadelphia

Jordan, Jr., W. H. & F., 128 N. Water St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Pa., Pittsburgh

*Scientific Materials Co.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blythswood Sq.

Ammonium Carbonate, Pure Tech. Lump*N. Y., New York City*

*Cooper & Co., Chas., 194 Worth St.

Ammonium Chloride*England, Liverpool*

Haddock Parker & Co., 14 Chapel St.

England, Smithy Bridge near Rochdale

Dearhead Chemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

Thomsen Chemical Co., Race and Winder Sts.

Mass., Boston

Avery Chemical Co., 88 Broad St.

*Linder & Meyer, 89 State St.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Barrett Company, Battery Place

Cooper & Co., Charles, 194 Worth St.

*Fuerst Bros. & Co., 2 Stone St.

*General Chemical Co., 25 Broad St.

Harshaw, Fuller & Goodwin Co., 100 William St.

Holliday, Read & Sons, Ltd., 160 Franklin St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

*Lamson & Bro., John L., 80 Maiden Lane

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

Merek & Co., 45 Park Pl.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Ammonium Chloride—cont.*N. Y., New York City—cont.*

Riker, J. L. & D. S., Inc., 19 Cedar St.

*Roessler & Hasslacher Chemical Co.

100 William St.

Squibb & Co., E. R., 82 Beekman St.

White Tar Co., 2 Cliff St.

*Wing & Evans, 22 William St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

*Harshaw, Fuller & Goodwin Co., 317

Electric Bldg.

Pa., Philadelphia

Jordan, Jr., W. H. & F., 128 N. Front St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blythwood Sq.

Ammonium Chromate*N. Y., New York City*

*Campbell, C. W., 11 Cliff St.

Ammonium Citrate*N. Y., New York City*

*Pfizer & Co., Chas., 81 Maiden Lane

Ammonium Fluoride*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

Wiarda, John C., & Co., 273 Greene St.

N. Y., New York City

Raritan Chemical Co.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.

Ammonium Fluoride, Dry, Technical*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Ammonium Hydrate (see Ammonium Hydroxide)**Ammonium Hydroxide***Canada, Toronto, Ontario*

Canadian Ammonia Co., Ltd., Heward Ave.

Colo., Denver

Western Chemical Mfg. Co.

Conn., New Haven

New Haven Gas Light Co., 80 Crown St.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

England, London

Berk & Co., Ltd., F. W., Fenchurch St.

Ill., Aurora

Jobbins, Inc., Wm. F., 923 N. Lake St.

Ill., Chicago

Deegan Supply Co., 116-122 W. Illinois St.

Mass., Boston

Cochrane Chemical Co., 40 Central St.

Merrimac Chemical Co., 32 Broad St.

United Indigo & Chemical Co., 176 Federal St.

Mich., Detroit

Michigan Ammonia Works, Meldrum St.

Mo., St. Louis

National Ammonia Co., 3600 N. Broadway

N. Y., Brooklyn

Seldner & Enequist

N. Y., New York City

American Cyanamid Co., 511 Fifth Ave.

Barrett Co., 17 Battery Place

Columbia Chemical Works, 11 Broadway

*Eimer & Amend, 205-211 Third Ave.

General Chemical Co., 25 Broad St.

*Heymann, W. H., 438 E. 59th St.

Kalbfleisch Corp., 31 Union Square, W.

*Klipstein & Co., A., 644 Greenwich St.

National Ammonia Co., 30 Platt St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Schwenker, Inc., W. M., 340-344 E. 92d St.

United Aniline & Chemical Works, Inc., 377 Broadway

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Carbondale

Carbondale Calcium Co.

Pa., Philadelphia

Bower Chemical Mfg. Co., Henry, 29th & Grays Ferry Road.

National Ammonia Co., Van Kirk and Delaware River

Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ammonium Hydrosulphuret*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Ammonium Iodide, U.S.P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium, Molybdate

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Del., Wilmington
Mineral Products Mfg. Co., Inc.

N. J., Belleville
Rare Metal Products Co., Cortland St.
N. Y., New York City

Merek & Co., 45 Park Pl.
Squibb & Sons, E. R., 82 Beekman St.

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Pa., Primos
Primos Chemical Co.

Ammonium Muriate (*see Ammonium Chloride*)**Ammonium Nitrate**

Ala., Muscle Shoals
U. S. Government Plant

Del., Wilmington
Hercules Powder Co.

Mass., Boston
Merrimac Chemical Co., 32 Broad St.

N. Y., New York City
*Aetna Explosives Co., Inc., 120 Broadway

*Alexander & Co., Inc., C. S., 61 Broadway
American Cyanamid Co., 511 Fifth Ave.

Butterworth-Judson Corporation, 61 Broadway

*Katzbach & Bullock Co., 100 William St.

*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway

*Merck & Co., 45 Park Pl.
Roessler & Hasslacher Chemical Co., 100 William St.

Squibb & Sons, E. R., 80 Beekman St.
*Tennant Sons & Co., C., 100 William St.

*Peters, White & Co., 55 John St.
*Williamson & Co., 120 Broadway

Ohio, Cleveland
Grasselli Powder Co., Arcade Bldg.
Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg., 1177 Marquette Road.

Pa., Emporium
Cameron Powder Mfg. Co.

Wash., Seattle
American Nitrogen Products Co.

Ammonium Nitrate, Granular, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Oxalate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Squibb & Sons, E. R., 82 Beekman St.

Pa., Bradford
American Alkali & Acid Co.

Ammonium Persulphate

N. Y., New York City
Holz, Herman A., 50 Church St.

Ammonium Phosphate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Victor Chemical Works, 1810 Fisher Bldg.

N. Y., Brooklyn
*Wiarda & Co., John C.

N. Y., New York City
*American Cyanamid Co., 511 Fifth Ave.

*Cooper & Co., Charles, 194 Worth St.

*General Chemical Co., 25 Broad St.

*Katzbach & Bullock Co., 100 William St.

*Klipstein & Co., A., 644 Greenwich St.

*Roessler & Hasslacher Chemical Co., 100 William St.

*Squibb & Sons, E. R., 82 Beekman St.

England, Manchester
Victors, Ltd., Victoria Bldg.

Ammonium Phosphate, Acid

Ill., Chicago
Victor Chemical Works, 343 S. Dearborn St.

Ammonium Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.

Lehn & Fink, Inc., 120 William St.

Ammonium Stearate

N. Y., Long Island City
Horn Co., A. C., Horn Bldg.

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ammonium Sulphate

- Ala., Birmingham**
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
- Ala., Woodward**
Woodward Iron Co.
- Colo., Denver**
Colorado Fuel & Iron Co., Boston Bldg.
- England, Manchester**
Spence & Sons, Ltd., Peter
- Ill., Aurora**
Coal Products Mfg. Co.
- Ill., Chicago**
Armour & Co., Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Illinois Steel Co., 208 S. La Salle St.
- Ill., Waukegan**
Inland Steel Co.
North Shore Gas Co.
- Ind., Indianapolis**
Citizens Gas Co.
- Ind., Linton**
Linton Gas Co.
- Ind., Muncie**
Central Indiana Gas Co.
- Ind., Terre Haute**
Indiana Coke & Gas Co.
- Md., Baltimore**
*Walter Co., Edw. J., 803 American Bldg.
- Mass., Boston**
Merrimac Chemical Co., 40 Central St.
New England Fuel & Trans. Co., 111 Devonshire St.
New England Gas & Coke Co., 24 West St.
- Mich., Detroit**
Michigan Carbon Works
- Mich., Wyandotte**
Michigan Alkali Co.
- Minn., Duluth**
Minnesota Steel Co., Morgan Park Sta.
- Minn., St. Paul**
Minnesota By-Product Coke Co.
- Minn., West Duluth**
Zenith Furnace Co.
- Mo., St. Louis**
Laclede Gas Light Co., 1017 Olive St.
Mallinckrodt Chemical Works, 3600 N. 2d St.
- N. J., Jersey City**
Seaboard By-Product Coke Co.
- N. J., Newark**
Camden Coke Co., Broad and Bank Sts.
Lister Agricultural Chemical Works
- N. Y., Buffalo**
Buffalo Fertilizer Co., 62 Pearl St.
Buffalo Union Furnace Co.
Lackawanna Steel Co.
- N. Y., Lackawanna**
Lackawanna Steel Co.
- N. Y., New York City**
Alexander & Co., Inc., C. S., 61 Broadway
American Cyanamid Co., 511 Fifth Ave.
*Baker & Bro., H. J., 81 Fulton St.
Barrett Co., 17 Battery Place
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Industrial Chemical Co., Fifth Ave. Bldg.
Katzenbach & Bullock Co., 100 William St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Pl.
Niagara Coke Corp., 6 Church St.
*Peters, White & Co., 92 William St.
Southern Oil & Chemical Co., 15 Park Row
- N. Y., Syracuse**
Semet-Solvay Co.
- Ohio, Cleveland**
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
- Ohio, Hamilton**
Hamilton-Otto Coke Co.
- Ohio, Youngstown**
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
- Ohio, Steubenville**
La Belle Iron Works
- Pa., Bethlehem**
Bethlehem Steel Co.
- Pa., Chester**
Philadelphia Suburban Gas & Electric Co.
- Pa., McKeesport**
Allegheny By-Products Coke Co.
- Pa., Philadelphia**
Cambria Steel Co., Widener Bldg.
Midvale Steel & Ordnance Co., Widener Bldg.
- Pennsylvania**
Salt Mfg. Co., 115 Chestnut St.
- Pa., Pittsburgh**
Carnegie Steel Co.
National Tube Co., Frick Bldg.
- Pa., South Bethlehem**
Bethlehem Steel Co.

Ammonium Sulphate—cont.*Tenn., Chattanooga*Chattanooga Gas & Coal Products Co.,
James Bldg.*Wash., Seattle*

Seattle Lighting Co., 360 Stuart Bldg.

Wis., Milwaukee

Milwaukee Coke & Gas Co.

Northwestern Iron Co., First National
Bank Bldg.*Scotland, Glasgow*Pumpherston Oil Co., Ltd., 135 Bu-
chanan St.**Ammonium Sulphocyanate***N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Ammonium Sulphocyanate,
Purif. Tech.***N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Ammonium Sulphocyanide(see *Ammonium Sulphocyanate*)**Ammonium Tartrate, Tech.***N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Ammonium Vanadate*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.*Pa., Philadelphia*

Foote Mineral Co., 120 N. 19th St.

Pa., Primos

Primos Chemical Co.

Amyl Acetate*Conn., Stamford*

Celluloid Zapon Co.

*Del., Wilmington*Du Pont de Nemours & Co., E. I.
International Smokeless Powder &
Chemical Co.*Ill., Chicago*Daigger & Co., A., 52-56 W. Kinzie St.
Van Schaack Bros. Chemical Works,
3358 Avondale Ave.*N. J., Carlstadt*

Franco-American Chemical Works

N. J., Wallington

Anderson Chemical Co.

N. Y., Albany

Albany Chemical Co.

*N. Y., New York City*Bush & Co., Inc., W. J., 100 William St.
Cooper & Co., Charles, 194 Worth St.

*Eimer & Amend, 205-211 Third Ave.

*Huisking, Inc., Chas. L., 5 Platt St.

*Ketchum & Co., 65 Fulton St.

*Klipstein & Co., A., 644 Greenwich
St.

*Lathrop & Co., H. R., 194 Water St.

*Maas & Waldstein Co., 100 William
St.*Magnus, Mabee & Reynard, 257
Pearl St.McKesson & Robbins, Inc., 91 Fulton
St.

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc.,
21 Burling Slip

Powers-Weightman-Rosengarten Co.

*Sloan & Russell, Inc., 132 Nassau St.

U. S. Industrial Chemical Co., 27 Wil-
liam St.*Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

*Van Brunt & Co., J. A., 114 John St.

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.*Pa., Warren*

Warren Chemical Products Co.

Amyl A'cohol (see Alcohol Amyl)**Amyl Butyrate***Ill., Chicago*

Van Shaack Bros., Chemical Works

N. Y., New York City

Bush & Co., Inc., W. J., 100 William St.

Wis., Wauwatosa

Northwestern Chemical Co.

Amyl Nitrite*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Amyl Salicylate***N. Y., New York City*Heyden Chemical Works, 135 William
St.*Pa., Philadelphia*Thomas Co., Arthur H., West Wash-
ington Square**Aniline***Conn., Naugatuck*

Naugatuck Chemical Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

England, Manchester

Robinson & Co., H. F., Newton Heath

*Willcocks & Co., Ltd., H. S., 5 Beaver
St.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Heller & Co., B., 3925 Calumet Ave.

Street & Co., R. R., 541 W. Washing-
ton St.

Aniline—cont.**Ill., Chicago—cont.**

- *Sethness Co., 718 N. Curtis St.
- Western Aniline Products Co.

La., New Orleans

- Wallior Chemical Works, 1010 Camp St.

Mass., Boston

- Atteaux & Co., F. E., 176 Purchase St.
- Bird & Co., J. A. & W., 88 Pearl St.
- United Indigo & Chemical Co., 176 Federal St.
- United States Color & Chemical Co., 93 Broad St.

Mich., Detroit

- Eaton & Son, Theo. H., 26 Woodward Ave.

Mich., Midland

- Dow Chemical Co.

N. J., Bound Brook

- Calco Chemical Co.

N. J., Elizabeth

- Midvale Chemical Works

N. J., Newark

- American Ultramarine & Globe Aniline Works, Hamburg Place
- Central Dyestuff & Chemical Co., Plum Pt. Lane

N. J., Perth Amboy

- General Supply Co., Market St. and Bertrand Ave.

N. Y., New York City

- Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
- *Bachmeir & Co., Inc., 438 W. 37th St.
- Bayer Co., The, 117 Hudson St.
- Berlin Aniline Works, 213 Water St.
- *Bischoff & Co., Inc., C., 451 Washington St.
- *Bredt & Co., F., 240 Water St.
- *Campbell & Co., John, 75 Hudson St.
- *Century Colors Corp., 182 Front St.
- Chemical Co. of America, 176 Front St.
- *Chemical Importing & Mfg. Co., 90 West St.
- *Doherr, Grimm & Co., 87 Gold St.
- Dye Products & Chemical Co., 200 Fifth Ave.
- *Echavarria & Co., R., 8 Bridge St.
- Farbwerke-Hoechst Co., 122 Hudson St.
- *Fuerst Bros. & Co., 2 Stone St.
- General Chemical Co., 25 Broad St.
- Heller & Merz, 505 Hudson St.
- *Herman & Herman, Inc., 6 Church St.
- *Huisking, Inc., Chas. L., 5 Platt St.
- *Innis, Speiden & Co., Inc., 46 Cliff St.
- *Jaack Co., Louis, 257 Front St.
- Jamaica Dyewood & Chemical Co., 50 Church St.
- Kalle Color & Chemical Co., 530 Canal St.

- *Klipstein & Co., A., 644 Greenwich St.

- *Kuttruff, Pickhardt & Co., Inc., 128 Duane St.

- *Lieber & Co., Inc., H., 14 Platt St.
- L. & R. Organic Products Co., Inc., 27 Thames St.

- *Magnus, Mabce & Reynard, Inc., 257 Pearl St.

- Marden, Orth & Hastings Corp'n, 61 Broadway

- Merck & Co., 45 Park Place
- Middlesex Aniline Co., Inc., 149 Broadway

- National Aniline & Chemical Co., Inc., 21 Burling Slip

- Roessler & Hasslacher Chemical Co., 100 William St.

- *Wood, Inc., J. Early, 21 Platt St.

Ohio, Cincinnati

- Eddy Chemical Co., 1014 Eliza St.

Ohio, Cleveland

- Sherwin-Williams Co.

Pa., Lock Haven

- Stanley Aniline Chemical Works, Inc.

Pa., Philadelphia

- Cambria Steel and Ordnance Co., Widener Bldg.

- *Fortner Co., L. B., 36-38 Strawberry St.

- Harmer Laboratories Co., 1704 Market St.

R. I., Providence

- Arnold, Hoffman & Co., Inc., 55 Canal St.

- Industrial Chemical Co., Inc., P. O. Box 1288

- *Lewis, John D., 63 Charles St.

Tenn., Kingsport

- Union Dye & Chemical Corporation

Scotland, Glasgow

- Barr, Ltd., James C., 27 Blythswood Sq.

Switzerland, Basle

- Sandoz Chemical Works, 60 Fabrikstrasse

Aniline Dyes

(see Colors and Dyestuffs)

Aniline Hydrochloride**Del., Wilmington**

- Du Pont de Nemours & Co., E. I.

England, Manchester

- *Willecocks & Co., Ltd., H. S., 5 Beaver St.

Ill., Chicago

- *Daigger & Co., A., 54 W. Kinzie St.

N. J., Bound Brook

- Calco Chemical Co.

N. J., Jersey City

- Seydel Mfg. Co., Forrest and Holliday Sts.

Aniline Hydrochloride—cont.

N. Y., New York City
 Aniline Dyes & Chemicals, Inc., Cedar
 and Washington Sts.
 Berlin Aniline Works, 213 Water St.
 Butterworth-Judson Corp., 61 Broad-
 way
 Chemical Co. of America, 28 Platt St.
 Edison International Corporation, 165
 Broadway
 Independent Chemical Co., 72 Front
 St.
 Jamaica Dyewood & Chemical Co., 50
 Church St.
 *Ketchum & Co., 65 Fulton St.
 *Klipstein & Co., A., 644 Greenwich
 St.
 Marden, Orth & Hastings Corp'n, 61
 Broadway
 National Aniline & Chemical Co., Inc.,
 21 Burling Slip
 Read & Holliday Sons, 160 Franklin
 St.
 White Tar Co., 6 Cliff St.
 *Wood, Inc., J. Early, 21 Platt St.

Pa., Philadelphia
 Ferguson Bros., 109 Chestnut St.
 Smith, Kline & French Co.
 Thomas Co., Arthur H., W. Washing-
 ton Square

Aniline Oil (see Aniline)**Aniline Sulphate**

Conn., Naugatuck
 Naugatuck Chemical Co.

Animal Derivatives

Mich., Detroit
 Digestive Ferments Co.

Antepine, Liquid

N. Y., New York City
 Bush & Co., Inc., W. J., 100 William
 St.

Anthracene

Ill., Chicago
 Research Laboratory of Chicago, 467
 E. Ontario St.

Ill., Madison
 Kettle River Co.

Ind., Indianapolis
 Republic Creosoting Co., Merchants
 Bank Bldg.

Mo., St. Louis
 *Heil, Henry, Chemical Co., 210-214
 S. 4th St.

N. Y., New York City
 Barrett Co., 17 Battery Pl.
 Edgertyn Aniline Corp., 118 William St.
 Merck & Co., 45 Park Place

Pa., Philadelphia

*Thomas, Arthur H., W. Washington
 Square

Anthraquinone

Ill., Chicago
 Research Laboratory of Chicago, 467
 Ontario St.

N. J., Jersey City
 Globe Chemical Co., Inc., 168 Broad-
 way

N. Y., New York City
 Edgertyn Aniline Corp., 118 William
 St.

Anti-Chlorine

Mass., Atlantic
 *Bosson & Lane

N. Y., New York City
 *Klipstein & Co., A., 644 Greenwich
 St.
 Roessler & Hasslacher Chemical Co.,
 100 William St.

R. I., Providence
 Arnold, Hoffman & Co.
 Rumford Chemical Works

Antidolorin

N. J., Carlstadt
 Franco-American Chemical Works, 8
 Gold St.

Antimonelle

N. Y., New York City
 Apex Chemical Co., Inc., 63 Park Row.

Antimony (Metal)

Cal., San Francisco
 Selby Smelting & Lead Co., Mer-
 chants' Exchange Bldg.

Ill., Chicago
 Great Western Smelting & Refining
 Co., 41st and Wallace Sts.
 Illinois Smelting & Refining Co.
 Raymond Lead Co., 940 W. Huron St.

Mass., Boston
 Cochrane Chemical Co., 40 Central St.
 *Richards & Co., Inc., 200 Causeway
 St.

Mo., St. Louis
 Hoyt Metal Co., 300 N. Broadway

N. J., Jersey City
 Williams & Sons, E. A.

N. Y., Brooklyn
 *Wiarda & Co., John C., 273 Green St.

N. Y., Buffalo
 *Hayman & Co., M., E. Ferry and N.
 Y. C. R. R.

N. Y., New York City
 American Metal Co., 61 Broadway
 *Beer, Sondheimer & Co., 61 Broad-
 way
 *Chrystal, Charles B., 11 Cliff St.

Antimony (Metal)—cont.*N. Y., New York City—cont.*

Cooper & Co., Charles, 194 Worth St.
 Dickerson, Van Dusen & Co., 32 Cliff St.

Edgertyn Aniline Corp., 118 William St.

*Hardy, Charles, 50 Church St.

*Hendricks Bros., 49 Cliff St.

*Hill & Sons, Edw., 64 Wall St.

Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.

*Import Chemical Co., 276 Water St.

*Jardine, Matheson & Co., Ltd., 63 Wall St.

Kalle Color & Chemical Co., 530 Canal St.

*Klipstein & Co., A., 644 Greenwich St.

*Leavitt & Co., C. W., 30 Church St.
 Magnolia Metal Co., 113 Bank St.

McKesson & Robbins, Inc., 91 Fulton St.

Nassau Smelting & Refining Works, 607 W. 29th St.

*Rockhill & Vietor, 22 Cliff St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Schieffelin & Co., 170 William St.

*Seligmann, Arthur, 165 Broadway
 Wah Chang Mining & Smelting Co.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co., Electric Bldg.

Pa., Philadelphia

Ajax Metal Co.

Foote Mineral Co., Inc.

Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Hussey & Co., C. G., 2850 Second Ave.

Antimony, Black*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Antimony, Crude*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

*Weymouth, Ralph W., 111 Broadway

Antimony Lactate*N. Y., New York City*

Apex Chemical Co., Inc., 63 Park Row.

Antimony, Needle (see also *Antimony Sulphide*)*N. Y., Brooklyn*

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Fuerst Bros. & Co., 2-4 Stone St.

Harshaw, Fuller & Goodwin Co., 100 William St.

*Import Chemical Co., 276 Water St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Weymouth, Ralph W., 111 Broadway

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Antimony, Needle, Powdered, Tech.*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Antimony Chloride*Mo., St. Louis*

Mallinckrodt Chemical Works

N. Y., New York City

Apex Chemical Co., 63 Park Row

Cooper & Co., Chas., 194 Worth St.

Lehn & Fink, Inc., 120 William St.

Merck & Co., 45 Park Place

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Powers Weightman-Rosengarten Co.

Antimony Oxalate*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Antimony Oxide*N. Y., Brooklyn*

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Fuerst Bros. & Co., 2 Stone St.

*Hardy, Chas., Inc., 50 Church St.

*Import Chemical Co., 276 Water St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Kalle Color & Chemical Co., 530 Canal St.

*Klipstein & Co., A., 644 Greenwich St.

*Leavitt & Co., C. W., 30 Church St.
 Magnolia Metal Co., 113 Bank St.

*Pfaltz & Bauer, Inc., 300 Pearl St.

Roessler & Hasslacher Chemical Co., 100 William St.

Southern Oil & Chemical Co., 15 Park Row

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Antimony Oxide, White*N. J., Jersey City*

Import Chemical Co., 162 First St.

N. J., New Brunswick

Antimony & Compounds Co. of America, P. O. Box 293

Antimony Potassium Tartrate*England, Manchester*

*Willcocks & Co., *Ltd., H. S., 5 Beaver St.

N. Y., New York City

Squibb & Sons, E. R., 82 Beekman St.

*Van Brunt & Co., Inc., J. A., 114 John St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Antimony Regulus*N. J., New Brunswick*

Antimony Compound Co. of America, P. O. Box 293

*N. Y., New York City*Cooper & Co., Chas., 194 Worth St.
Magnolia Metal Co., 113 Bank St.

*Weymouth, Ralph W., 111 Broadway

Antimony Sulfide, Golden*N. J., Jersey City*

Import Chemical Co., 162 First St.

Antimony Sulphide (*see also Antimony, Needle*)*Conn., Naugatuck*

Naugatuck Chemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Belleville

Rare Metal Products Co., Cortland St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Doherr, Grimm & Co., 87 Gold St.

*Import Chemical Co., 276 Water St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Magnolia Metal Co., 113 Bank St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Foote Mineral Co., 107 N. 19th St.

Antimony Sulphide, Crimson*N. J., Jersey City*

Import Chemical Co., 162 First St.

Antimony Sulphuret (*see Antimony Sulphide*)**Antimony Tribromide***Mich., Midland*

Dow Chemical Co.

Antimony Trichloride*Conn., Naugatuck*

Naugatuck Chemical Co.

Antipyrone*Mo., St. Louis*

Mallinckrodt Chemical Works

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Hoffman-La Roche Chemical Works, 440 Washington St.

Lehn & Fink, Inc., 120 William St.

McKesson & Robbins, Inc., 91 Fulton St.

Merck & Co., 45 Park Place

Rector Chemical Co., Inc., 2 Rector St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Antitoxins*D. C., Washington*

National Vaccine & Anti-Toxin Institute, 1513 W St., N. W.

Ill., Chicago

Cutter Laboratory of Ill., The, 170 N. Dearborn Ave.

Ind., Indianapolis

Lilly, Eli & Co., 224 E. McCarthy St.

Mich., Detroit

Parke, Davis & Co.

Stearns & Co., Fredericks

N. Y., New York City

Lederle Anti-Toxin Laboratories, 170 William St.

Pasteur Laboratories of America, 366 W. 11th St.

*Schieffelin & Co., 170 William St.

Pa., Philadelphia

Mulford, H. K., Co., 412 S. 13th St.

Aqua Fortis (*see Acid, Nitric*)**Arbutin***Ill., Chicago*

Abbott Laboratories, The, 4753 Ravenswood Ave.

Archil Extract (*see Extract, Archil*)**Argentum Proteinicum***Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Heyden Chemical Works, 135 William St.

Argillite (*see also Clays*)*N. J., Bound Brook*

Atlas Mineral Products Machine Co.

N. Y., Gouverneur

Ontario Tale Co.

*N. Y., New York City*International Pulp Co., 41 Park Row
Union Tale Co., 132 Nassau St.*Pa., Easton*

Williams & Co., C. K.

Argols*Mass., Boston*United Indigo & Chemical Co., 176
Federal St.*N. Y., New York City**Cooper & Co., Charles, 194 Worth St.
Holliday, Read & Sons, Ltd., 160
Franklin St.*Klipstein & Co., A., 644 Greenwich
St.*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

R. I., Providence

Arnold, Hoffman & Co.

Argols, Crude*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Argols, Red Powdered***N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Argon*N. Y., New York City*Air Reduction Sales Co., 120 Broad-
way.*N. Y., Schenectady*

General Electric Co.

Arsenic*England, Liverpool*

Haddock Parker & Co., 14 Chapel St.

England, Manchester

Victors, Ltd., Victoria Bldg.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

*Mo., St. Louis**Mallinckrodt Chemical Works, 3600
N. 2d St.*N. J., Jersey City*

Import Chemical Co., 162 First St.

N. J., Perth Amboy

Raritan Copper Works

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*American Metal Co., Ltd., 61 Broad-
wayAmerican Smelting & Refining Co., 120
Broadway*Beer, Sondheimer & Co., 61 Broad-
wayChipman Chemical Engineering Co.,
95 Liberty St.

*Cooper & Cooper, 309 Broadway

*Echavarria & Co., R., 8 Bridge St.

*Leggett & Bro., 301 Pearl St.

*Fuerst Bros. & Co., 2 Stone St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

*Halle-Perris Trading Corporation,
24 State St.

*Hemingway, Inc., Frank

Arsenic, Red (see Arsenic Sulphide)**Arsenic Sulphide***Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
*N. Y., New York City**Chemical Importing & Mfg. Co., 90
West St.Cooper & Co., Charles, 194 Worth St.
Marden, Orth & Hastings Corp'n, 61
Broadway

*Philipp Bros., Inc., 29 Broadway

Roessler & Hasslacher Chemical Co.,
100 William St.

*Weymouth, Ralph W., 111 Broadway

Arsenic Trioxide*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Md., Baltimore*Davison Chemical Co., South and Ger-
man Sts.*Mo., St. Louis**Heil Chemical Co., Henry, 210-214 S.
4th St.*N. Y., New York City*American Smelting, Refining & Min-
ing Co., 120 BroadwayChipman Chemical Engineering Co.,
95 Liberty St.Edgertyn Aniline Corp., 118 William
St.

*Eimer & Amend, 205-211 3d Ave.

Hill's Sons Co., Edw., 64 Wall St.

*Lenz Apparatus Co., Inc., 18 E. 16th
St.McKesson & Robbins, Inc., 91 Fulton
St.

Merck & Co., 45 Park Place

*Nitrate Agencies Co., 102 Pearl St.

*Philipp Bros., Inc., 29 Broadway

Roessler & Hasslacher Chemical Co.,
100 William St.Southern Oil & Chemical Co., 15 Park
Row

*Tennant Sons & Co., 100 William St.

U. S. Metals Refining Co., 42 Broad-
way*Van Brunt & Co., Inc., J. A., 114
John St.*Weymouth, Ralph W., 111 Broadway
White Tar Co., 6 Cliff St.*Ohio, Cleveland*

*Harshaw, Fuller & Goodwin Co.

Ont., St. Catharines

Coniagas Reduction Co., Ltd.

*Pa., Philadelphia*Pennsylvania Salt Mfg. Co., 115 Chest-
nut St.

Arsenic Trioxide—cont.*Pa., Philadelphia—cont.*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.Smith, Kline & French Co., 431 Arch
St.*Thomas, Arthur H., Co., W. Washing-
ton Square*R. I., Providence*

Arnold, Hoffman & Co., 55 Canal St.

*Lewis, John D.

Arsenic, White (see Arsenic Trioxide)**Arsenic, Yellow, Technical (see
Arsenic Sulphide)****Arsenious Chloride***Mo., St. Louis**Heil, Henry, Chemical Co., 210-214
S. 4th St.*N. Y., New York City*

Merck & Co., 45 Park Place

*Pa., Philadelphia**Thomas, Arthur H. Co., W. Wash-
ington Square**Arsenious Oxide (see Arsenic Tri-
oxide)****Arsenolite***N. Y., New York City**Weymouth, Ralph W., 15-17 E. 40th
St.**Arsphenamine***N. Y., New York City*

Metz & Co., H. A., 122 Hudson St.

Takamine Laboratory, Inc., 120 Broad-
way*Pa., Philadelphia*Dermatological Research Labora-
tories, 1720-22 Lombard St.**Asbestine***N. Y., New York City*

International Pulp Co., 41 Park Row

Asbestos*Ill., Chicago**Acme Asbestos Covering & Supply
Co., 401 N. Ada St.*Central Asbestos & Magnesia Co.,
214-216 W. Grand Ave.Columbia Mineral Wool Co., 58 W.
Washington St.

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Dunn & Kruse, 53 Park Row

Johns-Manville Co., H. W., Madison
Ave. and 41st St.Keasbey Co., Robert A., West and
Bank Sts.New Jersey Asbestos Co., 1 Water St.
Ohio, Cincinnati

Carey Co., Phillip

Pa., Ambler

Keasbey & Mattison Co.

Pa., Erie

Watson Co., H. F.

Pa., Franklin

Franklin Mfg. Co.

Pa., Philadelphia

*Lavino & Co., A. J., Bullitt Bldg.

Pa., Reynoldsville

Asbestos Textile Co.

Pa., Valley Forge

Ehret Magnesia Mfg. Co.

Ash (see Sodium Carbonate)**Ash, Bone***Colo., Denver*

Denver Fire Clay Co.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*American Agri. Chemical Co., 2 Rector
St.**Ash, Soda (see Sodium Carbonate)****Ash, Volcanic***N. J., Lincoln*

Atlas Mineral Products Co.

Asphalt (see also Paving, Roofing)*Cal., Los Angeles*

Union Oil Co. of Cal., 215 W. 7th St.

Mexican Petroleum Co., Security
Bldg.

Union Oil Co., 215 W. 7th St.

Mass., Boston

Warren Bros. Co., 59 Temple Place

Mo., St. Louis

Certain-teed Products Corporation

*N. Y., New York City**Asphalt Construction Co., 208 Broad-
way

Barrett Co., 17 Battery Place

Indian Refining Co., 17 Battery Place

Texas Co., 17 Battery Place

Pa., Erie

*Watson Co., H. F.

Pa., Philadelphia

Atlantic Refining Co.

Barber Asphalt Paving Co., Land Title
Bldg.*Pa., Pittsburgh*

Gulf Refining Co., Frick Bldg.

*Texas, Houston*Freeport & Mexican Fuel Co. Cor-
poration

Asphalt Putty*Pa., Philadelphia*

Barber Asphalt Paving Co., Land Title Bldg.

Asphaltum*Mo., St. Louis*

American Asphalt Association

N. J., Newark

Listers Agricultural Chemical Works

N. Y., New York City

Cooper & Co., Chas., 194 Worth St.

*Scheel, Wm. H., 159 Maiden Lane

Pa., Pittsburgh

Gulf Refining Co.

Aspirin (*see Acid Acetyl Salicylic, U. S. P.*)**Atropine Sulphate***Ind., Indianapolis*

Lilly & Co., Eli, 224 E. McCarthy St.

Aubepine, Liquid*N. Y., New York City*

Bush & Co., W. J., 100 William St.

Auramine*N. Y., Brooklyn*Williamsburg Chemical Co., Inc.,
230 Morgan Ave.*N. Y., New York City*L. & B. Organic Products Co., Inc.,
27 Thames St.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Auramine O***N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.*N. Y., Schenectady*

Organic Products Corporation

Aurantine (*see Extracts, Osage Orange*)**Avenin***Ill., Chicago*Abbott Laboratories, The, 4753 Ravens-
wood Ave.**Azo Benzene, Amido***N. Y., New York City*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.**Azo Coccine 2R***N. Y., Cook's Falls*

Beaverkill Color & Chemical Co., The

Azorubine*N. Y., New York City*Klipstein & Sons Co., E. C., 644
Greenwich St.**Azotine***Ga., Savannah*

*Crum & Co., W. R.

Ill., Chicago

*Sardy, J. R., 140 W. Van Buren St.

Ind., Marion

Western Drop Forge Works

Md., Baltimore

*White & Co., Thos. H., Reed Bldg.

N. Y., New York City

*Heller-Hirsh & Co., 62 William St.

Azo Toluene, Amido*Ind., Hammond*Western Aniline Products Co., Morton
Court*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Azo Toluene, Ortho*Mo., St. Louis**Heil, Henry, Chemical Co., 210-214
S. 4th St.*Pa., Philadelphia**Thomas, Arthur H., Co., W. Wash-
ington Square**Azo Xybenzene***Mo., St. Louis**Heil, Henry, Chemical Co., 210-214
S. 4th St.*Pa., Philadelphia**Thomas, Arthur H., Co., W. Wash-
ington Square**Azure I***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Azure II***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Azure II Eosine***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Babbitt Metal***Cal., San Francisco*Selby Smelting & Lead Co., Mer-
chants Exchange Bldg.*Ill., Chicago*Eagle Picher Lead Co., 208 S. La Salle
St.

Babbitt Metal—cont.*Ill., Chicago—cont.*

Great Western Smelting & Refining Co., 41st and Wallace Sts.

Raymond Lead Co., 940 W. Huron St.

Ryerson & Son, Jos. T., 16th and Rockwell Sts.

Ky., Louisville

Belknap Hardware & Mfg. Co.

Mass., Boston

Richards & Co., Inc., 200 Causeway St.

Mich., Detroit

Michigan Smelting & Refining Co., 1703 Jos Campau

N. Y., Brooklyn

Atlantic Smelting & Refining Co., 36-42 Delevan St.

Standard Rollings Mills Co., Inc.

N. Y., Lockport

Electric Smelting & Aluminum Co.

N. Y., New York City

American Smelting, Refining & Mining Co., 120 Broadway

Eagle Smelting & Refining Works

Magnolia Metal Co., 115 Bank St.

Magnus Co., Inc., 111 Broadway

Nassau Smelting & Refining Works, 607 W. 29th St.

National Lead Co., 111 Broadway

United Lead Co., 111 Broadway

Pa., Philadelphia

Ajax Metal Co., 48 Richmond St.

American Manganese Bronze Co., Holmesburg

North American Smelting Co., 9th and Thompson Sts.

U. S. Smelting Works, 1615 Spring Garden St.

Pa., Pittsburgh

Electric-Vanadium Reduction Co., Vanadium Bldg.

Keystone Bronze Co.

Westinghouse Electric Mfg. Co.

Pa., South Bethlehem

Bethlehem Steel Co.

Bacterial Products*Ind., Indianapolis*

Eli Lilly & Co.

Mich., Detroit

Digestive Ferments Co.

Parke, Davis & Co.

Pa., Philadelphia

Mulford Co., H. K.

Bakelite*N. Y., New York City*

General Bakelite Co., 2 Rector St.

Balsam, Canada*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Balsams*Mich., Charlotte*

Charlotte Drug Co.

Barbital*N. Y., New York City*

Rector Chemical Co., Inc., 2 Rector St.

Barium*N. Y., New York City*

Toch Bros., 320 Fifth Ave.

Barium Acetate*Mo. St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

*Eimer & Amend, 3rd Ave. and 18th St.

*Halle-Perris Trading Corporation, 24 State St.

*Klipstein & Co., A., 644 Greenwich St.

Squibb, E. R. & Sons., 80 Beekman St.

Barium Binoxide (See Barium Peroxide)**Barium Bromate***Mich., Midland*

Dow Chemical Co.

Barium Bromide*Mich., Midland*

Dow Chemical Co.

Barium Carbonate*Colo., Denver*

Chemical Products Co., 612-616 Majestic Bldg.

Ill., Chicago

Chicago Copper & Chemical Co., 111 W. Jackson Place

*Daigger & Co., A., 54 W. Kinzie St.

*Laboratory Materials Co., 7404 Calumet Ave.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Chemical Importing & Mfg. Co., 90 West St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

Roessler & Hasslacher Chemical Co., 100 William St.

Toch Bros., 320 Fifth Ave.

Barium Carbonate—*cont.**N. Y., New York City*—*cont.*

Warner Chemical Co., 52 Vanderbilt Ave.

*Williams & Son, Inc., John T.

Ohio, Cincinnati

Elkhorn Mining & Mfg. Co., 58 Main St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Tenn., Sweetwater

Durex Chemical Works

W. Va., Charleston

Rollin Chemical Co.

Barium Carbonate, Precipitated*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

W. Va., Charleston

Rollin Chemical Co., Inc.

Barium Caustic (*see Barium Hydroxide*)**Barium Chlorate***Mo., St. Louis*

Mallinckrodt Chemical Works

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

*Lathrop, H. R., & Co., Inc., 194 Water St.

W. Va., Charleston

Rollin Chemical Co., Inc.

Barium Chloride*Cal., San Francisco*

Barbour Chemical Works, 354 Pine St.

Colo., Denver

Chemical Products Co., 612 Majestic Bldg.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Ill., Chicago

Chicago Copper & Chemical Co., 111 W. Jackson Place

*Daigger & Co., A., 52–56 W. Kinzie St.

Midland Chemical Co., 80 E. Jackson Blvd.

*Stresen-Reuter & Hancock, Inc

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., Brooklyn

*Wiarda, John C., & Co., 273 Greene St.

N. Y., New York City

*Bush, Beach & Gent, Inc., 80 Maiden Lane

*Chemical Importing & Mfg. Co., 90 West St.

*Gabriel & Schall, 205 Pearl St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Katsenbach & Bullock Co., 100 William St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

Roessler & Hasslacher Chemical Co., 100 William St.

Toch Bros., 320 Fifth Ave.

White Tar Co., 6 Cliff St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

*Ferguson Bros., 109 Chestnut St.

Foote Mineral Co., Inc., 111 N. 19th St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Tenn., Sweetwater

Durex Chemical Works

W. Va., Charleston

Rollin Chemical Co., Inc.

England, Manchester

*Hall, George D. A., 33 Mosley St.

Barium Dioxide (*see Barium Peroxide*)**Barium Fluoride***N. Y., Brooklyn*

Highfield, John W., 248 N. 10th St.

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

General Chemical Co., 25 Broad St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Barium Hydrate (*see Barium Hydroxide*)**Barium Hydroxide***Ill., Chicago*

Chicago Copper & Chemical Co., 111 Jackson Place, W.

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Innis, Speiden & Co., Inc., 46 Cliff St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Pl.

Pa., Philadelphia

Foote Mineral Co., Inc., 111 N. 19th St.

W. Va., Charleston

Rollin Chemical Co., Inc.

England, Manchester

*Hall, George D. A., 33 Mosley St.

Barium Nitrate*Colo., Denver*Chemical Products Co., The, 612
Majestic Bldg.*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

England, Manchester

*Hall, George D. A., 33 Mosley St.

*Ill., Chicago*Chicago Copper & Chemical Co., 111
W. Jackson Place

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

*N. Y., New York City**Chemical Importing & Mfg. Co., 90
West St.

*Gabriel & Schall, 205 Pearl St.

*Huisling, Inc., Chas. L., 5 Platt St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
BroadwayMcKesson & Robbins, Inc., 91 Fulton
St.

Merck & Co., 45 Park Pl.

National Aniline & Chemical Co., Inc.,
21 Burling SlipRoessler & Hasslacher Chemical Co.,
100 William St.

Toch Bros., 320 Fifth Ave.

*Williamson & Co., 120 Broadway

Pa., Philadelphia

Foote Mineral Co., Inc., 111 N. 19th St.

Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.*Thomas Co., Arthur H., W. Wash-
ington Square*W. Va., Charleston*

Rollin Chemical Co., Inc.

Barium Oxide*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.*Pa., Philadelphia*

Foote Mineral Co., 111 N. 19th St.

W. Va., Charleston

Rollin Chemical Co., Inc.

Barium Peroxide*Cal., San Francisco*Barbour Chemical Works, 707 West
Coast Life Bldg.*Colo., Denver*

Chemical Products Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

*N. Y., New York City*Edgertyn Aniline Corp., 118 William
St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich
St.

Merck & Co., 45 Park Place

National Aniline & Chemical Co., 21
Burling Slip*Pa., Philadelphia*Foote Mineral Co., Inc., 111 N. 19th
St.*W. Va., Charleston*

Rollin Chemical Co., Inc.

Barium Sulphate*Colo., Denver*Chemical Products Co., 612 Majestic
Bldg.*England, Smithy Bridge, near Rochdale*

Dearhead Chemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mo., Mineral Point

Point Milling & Mfg. Co.

*Mo., St. Louis*Finch Mineral Milling Co., J. C., 101
Barton St.Nulsen, Klein & Krausse Mfg. Co.,
Foot Sidney St.*N. J., Trenton*

Utah Potash Co.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Dunn & Kruse, 53 Park Row

Edgertyn Aniline Corp., 118 William
St.*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
Broadway

Merck & Co., 45 Park Pl.

National Aniline & Chemical Co.,
21 Burling Slip

Oakland Chemical Co., 10 Astor Place

Toch Bros., 320 Fifth Ave.

*Waldo, E. M. & F., 11 Broadway

*Ohio, Cincinnati*Elkhorn Mining & Mfg. Co., 58 Main
St.

Globe Chemical Co., 1135 Regent Ave.

Ohio, Cleveland

Grasselli Chemical Co.

*Pa., Philadelphia*Foote Mineral Co., Inc., 111 N. 19th
St.*W. Va., Charleston*

Rollin Chemical Co., Inc.

Barium Sulphate, Dry*N. Y., New York City*

Toch Bros., 320 Fifth Ave.

Barium Sulphate, Powder*N. Y., New York City*

Innis, Speiden & Co., Inc., 46 Cliff St.

Barium Sulphide*Colo., Denver*

Chemical Products Co., 612 Majestic Bldg.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Pl.

Toch Bros., 320 Fifth Ave.

W. Va., Charleston

Rollin Chemical Co., Inc.

Barium Sulphocyanate*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

*Roessler & Hasslacher Chemical Co., 100 William St.

Barium Sulphocyanide (*see Barium Sulphocyanate*)**Barytes***Ala., Leeds*

Cahaba Mineral Co.

Alaska, Sulzer

Sulzer, C. A.

Cal., San Francisco

Dill-Crosett, Inc., 235 Pine St.

Colo., Canon City

Taylor, A. L.

Del., Newport

Krebs Pigment & Chemical Co.

England, Smithy Bridge, near Rochdale

Dearhead Chemical Co.

Ga., Cartersville

Big Tom Barytes Co.

Georgia Peruvian Ocher Co.

New Riverside Ocher Co.

Paga Mining Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Ill., East St. Louis

Illinois Mineral Milling Co.

Md., Baltimore

Cherokee Chemical Co., 109 Hollingsworth St.

Mo., Blackwell

Cole & Co., L. E.

McCready & Cole

Mo., Cadet

Long & Son, A.

White & Bro.

Mo., De Soto

Stocking & Sons, C. A.

Mo., Fletcher

Johnson Bros.

Mo., Halifax

Carter & Co., H. C.

Mo., Henley

Reavis & Sons, W. T.

Mo., Mineral Point

Point Milling & Mfg. Co.

Mo., Polos

Casey & McGregor

South East Wisconsin Lead Co.

Mo., St. Louis

Finck Mineral & Mining Co., J. C., 101 Barton St.

Nulsen, Klein & Krausse Mfg. Co., Levee and Sidney Sts.

Potosi Lead, Barytes & Mercantile Co., 721 Locust St.

Washington Land & Mining Co., 307 Washington St.

Mo., Tiff

U. S. Barytes Co.

N. C., Asheville

Betts & Co., Anson G.

N. C., Bessemer City

Lawton, Charles L.

N. C., Stackhouse

Carolina Barytes Co.

N. Y., Brooklyn

*Miner-Edgar Co., 52 Warren St.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

*Doherr, Grimm & Co., 87 Gold St.

Durex Chemical Co., 320 Fifth Ave.

*Fuerst Bros. & Co., 2 Stone St.

Thompson-Weinman & Co., 100 William St.

Pa., Philadelphia

Foote Mineral Co., 111 N. 19th St.

Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Pittsburgh-Potosi Lead Co., 5527

Ellsworth Ave.

Bauxite*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., Corning

Corning Glass Works

N. Y., New York City

*Leavitt & Co., C. W., 30 Church St.

Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Republic Mining & Mfg. Co., Harrison Bldg.

Pa., Pittsburgh

American Bauxite Co., Oliver Bldg.

Tenn., Chattanooga

Cherokee Mining Co.

Bensapal*N. J., Passaic*

Wolf & Co., Jacques, 342 Lexington Ave.

Benzal Chloride*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Benzaldehyde***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*N. J., Jersey City*Seydel Mfg. Co., Forrest and Holliday
Sts.*N. Y., Brooklyn*Williamsburg Chemical Co., Inc., 230
Morgan Ave.*N. Y., New York City*

*Baker & Bro., H. J., 81 Fulton St.

Bush & Co., Inc., W. J., 100 William St.

Chemical Co. of America, 176 Front St.

Chiris, Antoine, Co., 20 Platt St.

Florasynth Laboratories, Inc., 231
Pearl St.

*Heine & Co., 7 Platt St.

Hellenic Chemical & Color Co., Inc.,
1 Cedar St.McKesson & Robbins, Inc., 91 Fulton
St.National Aniline & Chemical Co., Inc.,
21 Burling Slip

Rector Chemical Co., Inc., 2 Rector St.

*Rockhill & Vietor, 22 Cliff St.

Southern Oil & Chemical Co., 15 Park
Row*N. Y., Syracuse*

Semet Solvay Co.

*Ohio, Sandusky*Hord Color Products Co., S. Columbus
Ave.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Benzaldehyde, Free from Chlorine***N. J., Bayonne*

Standard Chemical Co., W. 5th St.

Benzaldehyde, Tech.*N. J., Bayonne*

Standard Chemical Co., W. 5th St.

N. J., Ridgefield Park

British-American Chemical Co., Inc.

Benzene*Ala., Birmingham*Gulf States Steel Co., Brown-Marx
Bldg.

Tennessee Coal, Iron & R. R. Co.

Ala., Woodward

Woodward Iron Co.

*Cal., San Francisco*Pacific Refining & Roofing Co., 16th
and Texas Ave.*Colo., Denver*Colorado Fuel & Iron Co., Boston
Bldg.*Conn., New Haven*New Haven Gas Light Co., 80 Crown
St.*Del., Wilmington*

Du Pont Nemours & Co., E. I.

Ill., Aurora

Coal Products Mfg. Co.

Ill., Chicago

By-Products Coke Corp.

*Daigger & Co., A., 54 W. Kinzie St.

*Furman, Jas. H., 326 W. Madison St.

Gas Oil Co. of Indiana, People's Gas
Bldg.

Illinois Steel Co., 208 S. La Salle St.

Inland Steel Co.

Lewis Mfg. Co., F. J., 2500 S. Robey
St.*Ill., Waukegan*

North Shore Gas Co.

Ind., Indianapolis

Citizens Gas Co., Majestic Bldg.

Ind., Linton

Linton Gas Co.

Ind., Muncie

Central Indiana Gas Co.

Ind., Terre Haute

Indiana Coke & Gas Co.

Mass., Boston

Avery Chemical Co., 88 Broad St.

Cabot, Inc., Samuel, 141 Milk St.

New England Fuel & Trans. Co., 111

Devonshire St.

Mich., Wyandotte

Michigan Alkali Co.

Minn., Duluth

Minnesota Steel Co., Morgan Park Sta.

Minn., St. Paul

Minnesota By-Product Coke Co.

Minn., West Duluth

Zenith Furnace Co.

Mo., St. Louis

Laclede Gas Light Co., 1017 Olive St.

N. J., Elizabeth

Bayway Chemical Co.

N. J., Jersey City

Seaboard By-Product Coke Co.

*N. J., Newark*Camden Coke Co., Broad and Bank
Sts.*N. Y., Buffalo*

Buffalo Union Furnace Co.

Lackawanna Steel Co.

N. Y., Lackawanna

Lackawanna Steel Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Berlin Aniline Works, 213 Water St.

Cooper & Co., Chas., 194 Worth St.

Edison International Corporation, 165
Broadway

Benzene—cont.

N. Y., New York City—cont.

*Herman & Herman, Inc., 6 Church St.

Holliday, Read & Sons, Ltd., 160 Franklin St.

*Jordan, Wm. E., 11 Cliff St.

*Ketchum & Co. 65 Fulton St.

*Klipstein & Co., A., 644 Greenwich St.

*Lathrop & Co., Inc., H. R., 194 Water St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Niagara Coke Corp., 6 Church St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Williamson & Co., 120 Broadway

Zobel & Co., Inc., Ernst, 38 Water St.

N. Y., Syracuse

Semet-Solvay Co.

N. Y., Solvay

Solvay Process Co.

Ohio, Cleveland

American Steel & Wire Co., Western Reserve Bldg.

Dover By-Product Coke Co., Leader-News Bldg.

Harshaw, Fuller & Goodwin Co., Electric Bldg.

River Furnace Co.

Toledo Furnace Co., Western Reserve Bldg.

United Furnace Co., Western Reserve Bldg.

Ohio, Hamilton

Hamilton-Otto Coke Co.

Ohio, Lorraine

National Tube Co.

Ohio, Youngstown

Brier Hill Steel Co.

Republic Iron & Steel Co., Republic

Youngstown Sheet & Tube Co.

Ohio, Steubenville

LaBelle Iron Works

Pa., Carnegie

Aetna Chemical Co.

Pa., Chester

Philadelphia Suburban Gas & Electric Co.

Pa., Johnstown

Cambria Steel Co.

Pa., McKeesport

Allegheny By-Product Coke Co.

Pa., Philadelphia

Cambria Steel Co., Widener Bldg.

Harmer Laboratories Co., 1704 Market St.

Midvale Steel & Ordnance Co., Widener Bldg.

Powers-Weightman-Rosengarten Co.

Pa., Pittsburgh

Carnegie Steel Co.

National Tube Co., Frick Bldg.

Pa., South Bethlehem

Bethlehem Steel Co.

Tenn., Chattanooga

Chattanooga Gas & Coal Products Co., James Bldg.

Wash., Seattle

Seattle Lighting Co., 360 Stuart Bldg.

Wis., Milwaukee

Milwaukee Coke & Gas Co.

Milwaukee Gas Light Co.

Northwestern Iron Co., First National Bank Bldg.

Benzene, Amido Azo, Hydrochloride

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Benzene, Dinitro

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Benzene, Nitro

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Benzidene

N. Y., New York City

National Aniline & Chemical Co., Inc., 21 Burling Slip

*Williamson & Co., 120 Broadway

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Pa., Reading

Althouse Chemical Co.

R. I., Providence

Agawam Chemical Works, 10 Weybosset St.

Benzidine, Base and Sulphate

Del., Wilmington

Du Pont Chemical Works

Ill., Quincy

Monroe Color & Chemical Co., N. Front St.

N. J., Perth Amboy

General Supply Co., Market St. and Bertrand Ave.

N. J., Ridgefield Park

British-American Chemical Co., Inc.,

N. Y., New York City

Chemical Co. of America, 176 Front St.

*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Corp'n, 61 Broadway

Benzine*Cal., Los Angeles*

Southern Refining Co., 129 W. 2d St.
 Union Oil Co., of California, 215 W.
 7th St.

Md., Baltimore

Island Petroleum Co., Keyser Bldg.

N. Y., New York City

Southern Oil & Chemical Co., 15 Park
 Row
 Standard Oil Co., 26 Broadway

Ohio, Cincinnati

Moore Oil Co., York and McLean Ave.

Pa., Bradford

Emery Mfg. Co.

Pa., Oil City

Crystal Oil Works
 Germania Refining Co.

Pa., Petrolia

Petrolia Refining Co.

Pa., Philadelphia

Atlantic Refining Co.
 Crew-Levick Co., Land Title Bldg.
 Sun Co., Morris Bldg.
 Union Petroleum Co., 135 S. 2d St.

Pa., Pittsburgh

Gulf Refining Co., Frick Bldg.

Pa., Warren

Warren Refining Co.

Benzo Aminoazo*N. Y., New York City*

*Dye Products & Chemical Co., Inc.,
 200 Fifth Ave.

Benzo Azurine*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich
 St.

Benzoin*N. Y., New York City*

McKesson & Robbins, Inc., 91 Fulton
 St.

Benzol (see Benzene)**Benzo Naphthol***N. J., Jersey City*

Seydel Mfg. Co., Forrest and Halli-
 day Sts.

N. Y., New York City

*Chromos Chemical Co., Inc., Aeolian
 Hall

Benzo Purpurine*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Mar-
 ket St.

Benzo Purpurine 4-B*Ill., Quincy*

Monroe Color & Chemical Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar
 and Washington Sts.

Klipstein & Sons Co., E. C., 644 Green-
 wich St.

Benzoyl Chloride*N. Y., New York City*

Chemical Co. of America, Inc., 176
 Front St.

Benzyl Acetate*N. J., Bayonne*

Standard Chemical Co., W. 5th St.

N. Y., New York City

Florasynth Laboratories, Inc., 231
 Pearl St.

National Aniline & Chemical Co., Inc.,
 21 Burling Slip

Benzyl Benzoate*N. J., Bayonne*

Standard Chemical Co., W. 5th St.

N. Y., New York City

Florasynth Laboratories, Inc., 231
 Pearl St.

National Aniline & Chemical Co., Inc.,
 21 Burling Slip

Benzyl Chloride*Ill., Chicago*

Research Laboratory of Chicago, 467
 E. Ontario St.

N. J., Elizabeth

Bayway Chemical Co.

N. J., Ridgefield Park

British-American Chemical Co., Inc.

N. J., Jersey City

Seydel Mfg. Co., Forrest and Holli-
 day Sts.

N. Y., Brooklyn

Williamsburg Chemical Co., Inc., 230
 Morgan Ave.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.
 Chemical Co. of America, 176 Front St.

*Chromos Chemical Co., Inc., Aeolian
 Hall

*Heminway, Inc., Frank, 115 Broad-
 way

*Klipstein & Co., A., 644 Greenwich
 St.

Middlesex Aniline Co., Inc., 149 Broad-
 way

Rector Chemical Co., Inc., 2 Rector St.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Mar-
 ket St.

Benzyle*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich
 St.

Beryllium*Ill., Chicago*

Lindsay Light Co., 161 E. Grand Ave.

Pa., Philadelphia

Foote Mineral Co., 113 N. 19th St.

Beryllium Nitrate*Ill., Chicago*

Lindsay Light Co., 161 E. Grand Ave.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Beryllium Silicate*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Beta Naphthol (*see Naphthol, Beta*)**Beta Naphthylamine Hydrochloride***Pa., Philadelphia*

Harmer Laboratories Co.

Binitrophenol (*see Dinitrophenol*)**Binitrotoluene** (*see Dinitrotoluene*)**Biological Products***Ind., Indianapolis*

Lilly & Co., Eli, 224 E. McCarthy St.

Md., Baltimore

Sharp & Dohme

Mich., Detroit

Parke, Davis & Co.

N. Y., Pearl River

Lederle Antitoxin Laboratories

Pa., Philadelphia

Dean, J. Atlee, 5420 Baltimore Ave.

Mulford Co., H. K., 412 S. 13th St.

Biologic Reagents

Dean J. Atlee, 5420 Baltimore Ave.

Bismark Brown*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Holland

Holland Aniline Co.

N. Y., Monticello

Mont Color & Chemical Co.

N. Y., New York City

*Dicks, David Co., Inc., 302 Broadway

Dye Products & Chemical Co., Inc.,
200 5th Ave.Marden, Orth & Hastings Corp'n, 61
Broadway*R. I., Providence*Industrial Chemical Co., Inc., P. O.
box 1288*Tenn., Kingsport*

Federal Dyestuff & Chemical Corp.

Bismuth (Metal)*Ill., Chicago*

Illinois Smelting & Refining Co.

*Mass., Boston**Richards & Co., Inc., 200 Causeway
St.*Mo., St. Louis*Mallinckrodt Chemical Works, 3600
N. 2d St.*N. Y., New York City*American Metal Co., Ltd., 61 Broad-
wayAmerican Smelting Refining & Min-
ing Co., 120 Broadway

Cooper & Co., Chas., 194 Worth St.

*General Chemical Co., 25 Broad St.

*Hoffman-LaRoche Chemical Works,
440 Washington St.

*Huisking, Inc., Chas. L., 5 Platt St.

*Lehn & Fink, Inc., 120 William St.

*McKesson & Robbins, Inc., 91 Ful-
ton St.

*Merck & Co., 54 Park Place

*New York Quinine & Chemical Works,
114 William St.United States Metal Refining Co.,
165 Broadway*Ohio, Cleveland*

Grasselli Chemical Co., Arcade Bldg.

Pa., Philadelphia

Foote Mineral Co., 111 N. 19th St.

*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.*Smith, Kline & French Co., 431 Arch
St.*Trotter & Co., Nathan, 36 N. Front
St.**Bismuth Carbonate***N. Y., New York City*

*Weymouth, Ralph W., 111 Broadway

Bismuth Chloride*N. Y., New York City**Lenz Apparatus Co., Inc., 18 E. 16th
St.

Merck & Co., 45 Park Place

*Philipp Bros., Inc., 29 Broadway

Pa., Easton

Baker & Adamson Chemical Co.

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.*Thomas, Arthur H., Co., W. Wash-
ington Square**Bismuth Subcarbonate***Mo., St. Louis*Mallinckrodt Chemical Works, 3600
N. 2nd St.

Bismuth Subgallate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2d St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William
St.

Bismuth Subnitrate

Colo., Pueblo
Norcross Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2d St.
N. Y., New York City
Lehn & Fink, Inc., 120 William St.
Merck & Co., 45 Park Pl.
New York Quinine & Chemical Works,
Ltd
Pfizer & Co., Inc., Chas., 81 Maiden
Lane
Squibb & Sons, E. R., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch
St.

Bitumen

Ind., Indianapolis
Republic Creosoting Co., Merchants
Bank Bldg.
N. Y., New York City
Barrett Co., 17 Battery Place
Standard Oil Co. of New York
Texas, Houston
Texas Co.

Black, Anticorrosive

N. Y., New York City
Martin, L., Co.

Black, Bone

Mich., Detroit
Michigan Carbon Works, Carbon and
Forman Aves.
N. J., Newark
Lister Agricultural Chemical Works
N. Y., New York City
American Agri. Chemical Co., 2 Rector
St.
*Binney & Smith, 81 Fulton St.
Industrial Chemical Co., Inc., 200
Fifth Ave.
*Wilkes-Martin-Wilkes Co., 135
William St.
Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware
Ave.

Black, Carbon

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Cabot, Godfrey L., 204 Washington
St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., Inc., 200
Fifth Ave.
Martin Co., L., 81 Fulton St.
*Smith & Co., J. Lee, 23 Jacob St.
*Wilkes-Martin-Wilkes Co., 135
William St.
Pa., Williamsport
Columbia Carbon Co.

Black, Fast Chrome Blue

N. Y., New York City
Dye Products & Chemical Co., Inc.,
200 Fifth Ave.

Black, Direct

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230
Morgan Ave.
N. Y., New York City
L. & R. Organic Products Co., Inc.,
27 Thames St.
Marden, Orth & Hastings Corp'n, 61
Broadway

Black, Drop

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Frankfort

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Fur

N. Y., New York City
L. & R. Organic Products Co., Inc.,
27 Thames St.

Black, Gas

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., Inc., 200
Fifth Ave.

Black, Lamp (see Lamp Black)**Black, Paper**

N. Y., New York City
European Color & Chemical Co., 154
Nassau St.
Martin Co., L., 81 Fulton St.

Black, Paris*N. Y., New York City*

*Binney & Smith Co., 81 Fulton St.

Black, Rubber*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Binney & Smith Co., 81 Fulton St.

Black, Soot*N. Y., New York City*

*Binney & Smith Co., 81 Fulton St.

Black, Steam*N. J., Passaic*

Wolf & Co., Jacques, 342 Lexington Ave.

Black, Sulphur (*see Sulphur Black*)**Black, Technical***N. Y., New York City*

*Osborn Co., C. J., 132 Nassau St.

Blacks*N. Y., New York City*

Edgertyn Aniline Corp., 118 William St.

*Hellenic Chemical & Color Co., Inc., 1 Cedar St.

Industrial Chemical Co., Fifth Ave. Bldg.

Blanc Fixe (*see Barium Sulphate*)**Bleach** (*see also Calcium Hypochlorite and Chloride of Lime*)*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Me., Bangor

Eastern Mfg. Co.

Me., Portland

Brown Co.

Mich., Menominee

Michigan Electrochemical Co., N. State St.

Mich., Midland

Dow Chemical Co.

Midland Chemical Co.

N. Y., Albany

Albany Chemical Co.

Wander & Son Chemical Co., S., 135 Church St.

N. Y., Brooklyn

Price, W. H., 55 7th Ave.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Electro Bleaching Gas Co., 18 E. 41st St.

General Chemical Co., 25 Broad St.

*Hellenic Chemical & Color Co., Inc., 1 Cedar St.

*Hill's Sons Co., Edward, 64 Wall St.
Hooker Electrochemical Co., 40 Wall St.

Industrial Chemical Co., 5th Ave. Bldg.

*Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

*Nitrate Agencies Co., 102 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.

Southern Oil & Chemical Co., 15 Park Row

Warner Chemical Co., 52 Vanderbilt Ave.

White Tar Co., 6 Cliff St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

Niagara Alkali Co.

Castner Electrolytic Alkali Co.

N. Y., Syracuse

Solvay Process Co.

Ohio, Cleveland

Clark & Co., Fredk. G.

*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

*Fergusson Bros., 109 Chestnut St.

Pennsylvania Salt Mfg. Co., Widener Bldg.

R. I., Providence

Arnold, Hoffman & Co., Inc.

*Lewis, John D.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blythwood Sq.

Utah, Salt Lake City

Utah Soap Co.

Va., Saltville

Mathieson Alkali Works, Inc., The

Bleach Assistant*Mass., Atlantic*

Bosson & Lane

Blockplate*Pa., Philadelphia*

Taylor Co., Inc., N. & G., 300 Chestnut St.

Blue, Alizarine G.*Ill., Chicago*

Research Laboratory of Chicago, 467 E. Ontario St.

Blue, Alkali*Ohio, Sandusky*

Hord Color Products Co., S. Columbus Ave.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Blue, Alpha Naphthol-B*Ohio, Sandusky*

Hord Color Products Co., S. Columbus Ave.

Blue, Alpha Naphthol-R*Ohio, Sandusky*

Hord Color Products Co., S. Columbus Ave.

Blue, Aniline*Ill., Chicago*

Research Laboratory of Chicago, 467 E. Ontario St.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Blue, Benzo, B.B.*Ill., Quincy*

Monroe Color & Chemical Co.

N. Y., Cook's Fall

Beaverkill Color & Chemical Co., The

Blue, Bleachers*Mass., Atlantic*

Bosson & Lane

N. Y., New York City

Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Blue Benzo Sky*N. Y., Cook's Fall*

Beaverkill Color & Chemical Co., The

Blue, Bronze*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Middlesex Aniline Co., Inc., 149 Broadway.

Blue, Chinese*N. Y., New York City*

Kohnstamm & Co., 87 Park Place

*Klipstein & Co., A., 644 Greenwich St.

Middlesex Aniline Co., Inc., 149 Broadway

Blue, Chrome*Ohio, Sandusky*

Hord Color Products Co., S. Columbus Ave.

Blues, Chrome Bottom*Pa., Philadelphia*

*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Blue, Chrome Navy, Fast*N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Blue, C. P.*Ill., Chicago*

*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.

Blue, Cobalt*England, Essex, Loughton*

Madderton & Co., Ltd.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Heller & Merz Co., 505 Hudson St.

Blue, Direct*N. J., Bound Brook*

Peerless Color Co., Inc.

N. Y., New York City

*Dicks David Co., Inc., 302 Broadway

*Drug & Dyestuff Corp., 120 Broadway

L. & R. Organic Products Co., Inc., 27 Thames St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Pa., Philadelphia

*Pennsylvania Color Mfg. Co., 248 Chestnut St.

R. I., Providence

Agawam Chemical Works, 10 Waybosset St.

Industrial Chemical Co., Inc., 283 Pitman St.

Blue, Direct, 2 B*Pa., Reading*

Althouse Chemical Co., 500-540 Pearl St.

Blue, Direct Navy*Pa., Reading*

Althouse Chemical Co., 500-540 Pearl St.

Blue, Ferro Cyanide*N. Y., New York City*

Middlesex Aniline Co., Inc., 149 Broadway

Blue, Induline, W.S.*R. I., Providence*

Industrial Chemical Co., Inc., P. O. Box 1288

Blue, Insoluble (*see Blue, Prussian*)**Blue, Methylene***Ill., Chicago*

*Daigger & Co., 54 W. Kinzie St.

N. J., Bound Brook

Calco Chemical Co.

N. Y., New York City

*Binney & Smith Co., 81 Fulton St.

Hellenic Chemical & Color Co., Inc.,
427 W. 13th St.L. & R. Organic Products Co., Inc., 27
Thames St.Marden, Orth & Hastings Corp'n, Inc.,
61 BroadwayReliance Aniline & Chemical Co., 299
Broadway*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Blue, Methylene, Bacilli and
Medicinal***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Blue, Methylene, B. B. B.
(Extra)***Ill., Chicago*Research Laboratory of Chicago.,
467 E. Ontario St.**Blue, Methylene, Loeffler***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Blue, Methylene Medicinal***Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Blue, Methylene, Rectified for
Wright Stain***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Blue, Milori***N. Y., New York City*

Kohnstamm & Co., 87 Park Place

Middlesex Aniline Co., Inc., 149 Broad-
way*N. Y., Glen Falls*

Imperial Color Works, Inc.

Blue, Oil Soluble*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Blue, Patent Swiss***N. Y., New York City*L. & R. Organic Products Co., Inc.,
27 Thames St.**Blue, Powdered***N. J., Jersey City*

Import Chemical Co., 162 First St.

Blue, Prussian*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Newark

Jaenecke-Ault Co.

N. Y., Glen Falls

Imperial Color Works, Inc.

N. Y., New York City

*Campbell, C. W., 11 Cliff St.

Heller & Merz Co., The, 505 Hudson
St.

*Ketchum & Co., 65 Fulton St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
BroadwayMiddlesex Aniline Co., Inc., 149 Broad-
way

*Osborn Co., O. J., 132 Nassau St.

Ohio, Marietta

Northwestern Chemical Co.

Ohio, Sandusky

Hoid Color Products Co.

Blue, Prussian, Insoluble*N. Y., Glen Falls*Imperial Color Works, Inc., Warren
St.**Blue, Prussian, Soluble***N. Y., Glen Falls*Imperial Color Works, Inc., Warren
St.**Blue-R, Midland***Mich., Midland*

Dow Chemical Co.,

Blue, Soluble*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Glen Falls

Imperial Color Works

*N. Y., New York City**Hellenic Chemical & Color Co., Inc.,
1 Cedar St.Heller & Merz Co., The, 505 Hudson
St.

*Hirsh & Son, L., 368 Greenwich St.

*Ketchum & Co., 65 Fulton St.

*Kuttruff, Pickhardt & Co., Inc., 128
Duane St.

Blue, Soluble—cont.*N. Y., New York City—cont.*Marden, Orth & Hastings Corp'n, 61
Broadway

Reynolds & Devoe Co., 103 Fulton St.

*Tiegan & Co., M. F., 100 William St.

*Waldo, E. M. & F., 11 Broadway

Bluestone (see Copper Sulphate)**Blue, Toluidine***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Blue, Ultramarine***Cal., San Francisco*Wheeler, Reynolds & Stauffer, 624
California Ave.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Cooper & Cooper, 309 Broadway

Hellenic Chemical & Color Co., Inc.,
1 Cedar St.

Heller & Merz Co., 503 Hudson St.

Ultramarine Co., 38 Park Row

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

W. Va., Huntington

Standard Ultramarine Co.

**Blue, Unna, Polychrome
Methylene***Pa., Philadelphia*

Harmer Laboratories Co.

Blue Vitriol (see Copper Sulphate)**Blue, Williamson's***N. Y., New York City*Middlesex Aniline Co., Inc., 149
Broadway.**Bluing, Indigo (see Indigo)****Boiler Compound***N. Y., New York City*Chipman Chemical Engineering Co.,
95 Liberty St.**Boiler Compounds***Mich., Saginaw*

U. S. Graphite Co.

N. Y., New York City

Sonneborn Sons, Inc., L.

Warner Chemical Co., 2 Rector St.

Pa., Fernwood

Modoc Co., Inc.

Boldine Hydrobromide*Ill., Chicago*Abbott Laboratories, The, 4753 Ra-
venswood Ave.**Bone Ash (see Ash, Bone)****Bone Black (see Black, Bone)****Bone, Ground***Ill., Chicago*

Armour & Co.

Morris & Co.

Swift & Co.

Wilson & Co.

*N. Y., New York City*Lister Agricultural Chemical Co., 2
Rector St.**Bone, Steamed***Ohio, Cincinnati*Joslin-Schmidt Co., 3223 Spring Grove
Ave.**Boracic Acid (see Acid, Boric)****Borax (see Sodium Tetraborate)****Bordeaux (see Lead Arsenate)****Borneol***Pa., Grassland*

Essential Oil Specialties Co., Inc.

Bortz*N. Y., New York City**Diamond Drill Carbon Co., 53-63
Park Row.**Brombenzene, Mono***Mich., Midland*

Dow Chemical Co.

W. Va., Charleston

Rollin Chemical Co., Inc.

W. Va., Malden

Dickinson & Co., J. O.

Bromine*England, London*American Commerce Co., Ltd., The,
19 St. Bride St.*Mich., Midland*

Dow Chemical Co.

*Mo., St. Louis*Mallinckrodt Chemical Works, 3600
N. 2d St.*N. Y., New York City**Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William
St.Heyden Chemical Works, 135 William
St.Merk & Co., 45 Park Place
Squibb & Sons, E. R., 80 Beekman St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Pomcroy

Graclif Chemical Co.

Bromine—cont.*Pa., Philadelphia*

Powers-Weightman-Rosengarten Co.

W. Va., Hartford

American Calcium Chloride Works

W. Va., Malden

Dickinson Co., J. Q.

Bromium Chloride*W. Va., Hartford*

Mason Coal & Chemical Co.

Bromoform, U. S. P.*Mich., Midland*

Dow Chemical Co.

Bromo Styrol*N. Y., New York City*

Florasynth Laboratories, Inc., 231

Pearl St.

Brown, Anthracene*Ill., Chicago*Research Laboratory of Chicago,
467 E. Ontario St.**Brown, Bismarck***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Browns, Basic***N. Y., New York City*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.L. & R. Organic Products Co., Inc.,
27 Thames St.**Browns, Bismarck***Pa., Philadelphia*

Harmer Laboratories Co.

*R. I., Providence*Industrial Chemical Co., Inc., 283
Pitman St.**Brown, Bismarck Base***N. Y., New York City*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.**Brown, Bismarck R.***N. Y., New York City*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.**Brown, Chrome***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*N. Y., New York City**Dye Products & Chemical Co., Inc.,
200 Fifth Ave.**Brown, Diazo Seal***Pa., Reading*Althouse Chemical Co., 500-540 Pear
St.**Browns, Direct***N. Y., New York City*L. & R. Organic Products Co., Inc.,
27 Thames St.*R. I., Providence*Agawam Chemical Works, 10 Wey-
bosset St.**Browns, Direct (Cotton)***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Bound Brook

Peerless Color Co., Inc.

*N. Y., New York City*Marden, Orth & Hastings Corp'n, 61
Broadway*Tenn., Kingsport*

Federal Dyestuff & Chemical Corp.

Browns, Direct, G*R. I., Providence*Industrial Chemical Co., Inc., 283
Pitman St.**Brown, Direct Fast Red***Pa., Philadelphia**Pennsylvania Color Mfg. Co., 248
Chestnut St.**Brown, Oil Soluble***N. Y., New York City*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.**Brown, Spirit Soluble***N. Y., New York City*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.**Brush Laquers and Thinners***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Cadmium (Metal)*Del., Newport*

Krebs Pigment & Chemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., James H., 167 W.
Austin Ave.*Mass., Boston**Richards & Co., Inc., 200 Causeway
St.*Mich., Detroit*

Michigan Smelting & Refining Co.

N. J., Trenton

Engle, Robert H.

Cadmium (Metal)—cont.

- N. Y., New York City*
 American Smelting & Refining Co.,
 120 Broadway
 *Merck & Co., 45 Park Place
 U. S. Metals Refining Co., 42 Broad-
 way
 U. S. Smelting, Refining & Mining Co.,
 Inc., 120 Broadway
Ohio, Cleveland
 Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
 *Foote Mineral Co., 107 N. 19th St.
 Powers-Weightman-Rosengarten Co.,
 9th and Parrish Sts.

Cadmium Bromate

- Mich., Midland*
 Dow Chemical Co.

Cadmium Bromide

- Mich., Midland*
 Dow Chemical Co.
Mo., St. Louis
 Mallinckrodt Chemical Works, 3600
 N. 2d St.
N. Y., New York City
 Cooper & Co., Charles, 194 Worth St.

Cadmium Chloride

- Ill., Chicago*
 *Daigger & Co., A, 54 W. Kinzie St.
Mo., St. Louis
 *Heil, Henry, Chemical Co., 210-214
 S. 4th St.
N. Y., New York City
 Cooper & Co., Charles, 194 Worth St.
 Merck & Co., 45 Park Place
Pa., Philadelphia
 *Thomas, Arthur H., Co., W. Wash-
 ington Square

Cadmium Nitrate

- Ill., Chicago*
 *Daigger & Co, A., 54 W. Kinzie St.
Mo., St. Louis
 *Heil, Henry, Chemical Co., 210-214
 S. 4th St.
N. Y., New York City
 Merck & Co., 45 Park Place
Pa., Philadelphia
 *Thomas, Arthur H., Co., W. Wash-
 ington Square

Cadmium Sulphate

- N. Y., New York City*
 Cooper & Co., Charles, 194 Worth St.
Ohio, Cleveland
 Grasselli Chemical Co.

Pa., Philadelphia

- Foote Mineral Co., Inc., 107 N. 19th
 St.

Cadmium Sulphide

- Ill., Chicago*
 Midland Chemical Co., 80 E. Jackson
 Blvd.
N. Y., Brooklyn
 *Wiarda & Co., John C., 273 Green St.
N. Y., New York City
 American Smelting & Refining Co.,
 120 Broadway
Ohio, Cleveland
 Grasselli Chemical Co.
 Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
 Foote Mineral Co., Inc., 107 N. 19th St

Caesium Alum

- Pa., Philadelphia*
 Foote Mineral Co., 120 N. 19th St.

Caesium Chloride

- Pa., Philadelphia*
 Foote Mineral Co., 120 N. 19th St.

Caesium Nitrate

- Pa., Philadelphia*
 Foote Mineral Co., 120 N. 19th St.

Caesium Oxide

- Pa., Philadelphia*
 Foote Mineral Co, 120 N. 19th St.

Caesium Silicate

- Pa., Philadelphia*
 Foote Mineral Co., 120 N. 19th St.

Caffeine

- Ill., Chicago*
 Abbott Laboratories, The, 4753 Ra-
 venswood Ave.
 *Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
 Mallinckrodt Chemical Works, 3600
 N. 2d St.
 Monsanto Chemical Works, 2d St.
 and LaFayette Ave.
N. Y., New York City
 Edgertyn Aniline Corp., 118 William
 St.
 Hoffman-La Roche Chemical Works,
 440 Washington St.
 McKesson & Robbins, Inc., 91 Fulton
 St.
 Merck & Co., 45 Park Place
 National Aniline & Chemical Co., Inc.,
 21 Burling Slip
 Takamine Laboratory, 120 Broadway

Cala Fene (Fastens Pigment Colors to Leather)

N. Y., New York City
Apex Chemical Co., Inc., 63 Park Row.

Calcium Acetate

Cal., San Francisco
Noble Electric Steel Co., 995 Market St.

Fla., Jacksonville
Florida Wood Products Co.

Ky., Kragon
Kentucky Wood Products Co., Inc.

Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co.

Mich., Cadillac
Cadillac Chemical Co.
Cummer, Diggins Co.

Mich., Detroit
Berry Bros., Ltd.
Charcoal Iron Co. of America

Mich., East Jordan
East Jordan Chemical Co.

Mich., Wells
Delta Chemical Co.

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Buffalo
Wood Products Co.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Fuller & Co., Ralph L., 4 Rector St.
Gray, W. S. & Co., South Maiden Lane
Industrial Chemical Co., 200 Fifth Ave.
*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.

N. Y., Olean
Beerston Acetate Co.
Buckhannon Chemical Co.
Heinemann Chemical Co.
Lackawanna Chemical Co.
Newton Chemical Co.
Straight Creek Chemical Co.

N. Y., Vandalia
Vandalia Chemical Co.

Ohio, Cleveland
Cleveland Cast Iron Co.
Cleveland-Cliffs Iron Co.
*Harshaw, Fuller & Goodwin Co.

Ore., Portland
Oregon Wood Distilling Co.

Pa., Bradford
Coryville Chemical Co.
Gaffney Wood Products Co.
Lewis Run Mfg. Co.

Maryland Wood Products Co.
Marvindale Chemical Co.
Pa., Mayburg
Tionesta Valley Chemical Co., Inc.
Pa., Pittston

Wyoming Chemical Co.

Pa., Williamsport
McKean Chemical Co.

R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Tenn., Memphis
Forest Products Chemical Co.

Calcium Arsenate

N. Y., New York City
*Hemingway, Inc., Frank

Calcium Bromide

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Midland
Dow Chemical Co.

Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Calcium Carbide

Mo., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Ill., St. Louis

*Heil, Henry, Chemical Co., 210-214 S. 4th St.

N. Y., New York City

Air Reduction Sales Co., Inc., 120 Broadway

*Canada Carbide Sales Co., Inc., 30 Church St.

Carbondale Calcium Co., 50 Church St.

Edgertyn Aniline Corp., 118 William St.

*Fairbanks Morse & Co., 30 Church St.

Nitrate Agencies Co., 102 Pearl St.

Union Carbide Co., 42d St. Bldg.

Calcium Carbonate

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Lincoln

Atlas Mineral Products Co.

N. Y., New York City

*Echavarria & Co., R., 8 Bridge St.

*Halle-Perris Trading Corporation, 24 State St.

Calcium Carbonate, Native

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

Calcium Chlorate

N. Y., Brooklyn

Wiarda & Co., John C., 100 William St.

Calcium Chloride*Cal., San Francisco*

Great Western Electrochemical Co.

England, Darlington

Parkin, Ness & Co., Quebec St.

England, Smilthy Bridge, near Rochdale

Dearhead Chemical Co.

*England, West Bromwich*Lewington Whitehouse. Olympic
Works, Carters Green*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., James H., 157 W. Austin St.

Md., Baltimore

Thomsen Chemical Co.

Mass., Boston

Cabot, Inc., Samuel, 141 Milk St.

Mich., Detroit

Parke, Davis & Co.

*Mich., Menominee*Michigan Electrochemical Co., N
State St.*Mich., Midland*

Dow Chemical Co.

N. Y., Albany

Mendelson Corporation

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

*Baker & Bro., H. J., 81 Fulton St.

Barrett Co., The, 17 Battery Place

Cooper & Co., Charles, 194 Worth St.

*Doherr, Grimm & Co., 87 Gold St.

Edgertyn Aniline Corp., 118 William
St.

*Fuerst Bros. & Co., 2 Stone St.

Grasselli Chemical Co., 80 Maiden
LaneMcKesson & Robbins, Inc., 91 Fulton
St.Roessler & Hasslacher Chemical Co.,
100 William St.*Schwenker, Inc., W. M., 342 E. 92d
St.Southern Oil & Chemical Co., 15 Park
RowWest Disinfecting Co., Inc., 411 5th
Ave.

*Wing & Evans, 22 William St.

*Wood, Inc., J. Early, 21 Platt St.

*Zobel Co., Inc., Ernst, 38 Water St.

N. Y., Syracuse

Solvay Process Co.

Ohio, Cleveland

Grasselli Chemical Co.

Ohio, Pomeroy

Gracliff Chemical Co.

Pomeroy Salt Co.

Pa., Carbondale

Carbondale Calcium Co.

R. I., Providence

Arnold, Hoffman & Co.

*Lewis, John D., Turks Head Bldg.

Mathieson Alkali Co.

*Scotland, Glasgow*Barr, Ltd., James C., 27 Blythwood
Sq.*Wash., Tacoma*

Standard Chemical Co.

W. Va., Hartford

Mason Coal & Chemical Co.

Calcium Fluoride*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Calcium Glycerophosphate*Mo., St. Louis*

Monsanto Chemical Works

*Pa., Philadelphia*Smith, Kline & French Co., 431 Arch
St.**Calcium Hypochlorite** (see also*Bleach and Chloride of Lime*)*Cal., Los Angeles*

Pacific Chemical Co., 1421 N. Main St.

*Cal., San Francisco*Rogers Chemical Co., R. R., 527-535
Commercial St.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Mich., Detroit*Zenner Products Co., 133-135 W.
Larned St.*R. I., Providence*

Arnold, Hoffman & Co., Inc.

Calcium Hypophosphite*Mo., St. Louis*Mallinckrodt Chemical Works, 3600
N. 2nd St.**Calcium Linoleates***Pa., Philadelphia*

Meyer & Sons, J., 480 Bourse Bldg.

Calcium Magnesium Chloride*Mich., Midland*

Dow Chemical Co.

Ohio, Pomeroy

Gracliff Chemical Co.

W. Va., Malden

Dickinson & Co., J. Q.

Calcium Nitrate*N. Y., New York City**Tennant, C., Sons & Co., 100 Wi
liam St.*Pa., Pittsburgh*

Macbeth-Evans Glass Co.

Calcium Oleate

N. J., Harrison
National Oil Products Co., Essex and
First Sts.

Calcium Oxide

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., J. H., 157 W. Austin
St.

Mass., Boston

Merrimac Chemical Co., 33 Broad St.

Minn., Duluth

American Carbolite Co., 301 N. 55th
Ave.

N. Y., New York City

Roessler & Hasslacher Chemical Co.,
100 William St.

N. Y., Solvay

Solvay Process Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., 115 Chest-
nut St.

Powers-Weightman-Rosengarten Co.

Calcium Palmitate

N. J., Harrison

National Oil Products Co., Essex and
First Sts.

Calcium Phosphate

Ill., Chicago

Victor Chemical Co., 343 S. Dear-
born St.

England, Manchester

Victors, Ltd., Victoria Bldg.

Mo., St. Louis

Provident Chemical Works, 8011 Idaho
Ave.

N. Y., New York City

Marden, Orth & Hastings Corp'n, 61
Broadway

Merck & Co., 45 Park Place

Pa., Philadelphia

Footo Mineral Co., 120 N. 19th St.
Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Calcium Phosphate, Pri.

N. Y., New York City

General Chemical Co., 25 Broad St.

Merck & Co., 45 Park Place

Warner Chemical Co., The, 52 Vander-
bilt Ave.

Calcium Phosphate, Sec.

Mo., St. Louis

*Heil, Henry, Chemical Co., 210-214
S. 4th St.

N. Y., New York City

Merck & Co., 45 Park Place

Calcium Phosphate, Tert.

Mo., St. Louis

*Heil, Henry, Chemical Co., 210-214
S. 4th St.

N. Y., New York City

Merck & Co., 45 Park Place

Calcium Phosphide

N. Y., New York City

*Fuerst Bros. & Co., 2 Stone St.

Calcium Resinate

N. J., Harrison

National Oil Products Co., Essex and
First St.

Calcium Resinate, Precipitated

Pa., Philadelphia

*Meyer & Sons, J., 480 Bourse Bldg.

Calcium Stearate

N. Y., Long Island City

Horn Co., A. C., Horn Bldg.

N. Y., New York City

*Sloan & Russell, Inc., 132 Nassau St.

N. J., Harrison

National Oil Products Co., Essex and
First Sts.

Pa., Philadelphia

*Meyer & Sons, J., 480 Bourse Bldg.

Calcium Sulfate

Ill., Chicago

United States Gypsum Co., 205 W.
Monroe St.

Ill., Hoopston

Iliff-Bruff Chemical Co.

Iowa, Fort Dodge

Fort Dodge Gypsum Co.

N. Y., Buffalo

Niagara Gypsum Co., 597 Michigan
Ave.

Pratt & Lambert Co.

N. Y., New York City

*Dunn & Kruse, 53 Park Row

General Chemical Co., 25 Broad St.

Industrial Chemical Co., 5th Ave Bldg.

Roessler & Hasslacher Chemical Co.,
100 William St.

Williamson & Co., D. D., 86 Fulton
St.

N. Y., Rochester

American Gypsum Co.

N. Y., Syracuse

Solvay Process Co.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Okla., Enid

Independence Gypsum Co.

Calcium Sulphate—cont.

- Pa., Philadelphia*
 Foote Mineral Co., Inc., 111 N. 19th St.
 Harrison Works, 35th and Grays Ferry Road
 Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Va., North Holston
 Southern Gypsum Co.
Wash., Tacoma
 Pacific Coast Gypsum Co.

Calcium Sulphate, Hydrated

- N. Y., Syracuse*
 Solvay Process Co.

Calcium Sulpho Carbolate

- Ill., Chicago*
 Abbott Laboratories, The, 4753 Ravenswood Ave.

Calcium Sulphocyanate

- N. Y., New York City*
 *Klipstein & Co., A., 644 Greenwich St.

Calcspar (see Calcium Carbonate, Native)**Calomel** (see Mercurous Chloride)**Camphor, Gum** (see Gum Camphor)**Camphor, Monobromated**

- Mich., Midland*
 Dow Chemical Co.

Canadium

- England, London*
 Franklin Chemical Co., Ltd.

Candles, Fumigating

- Cal., Los Angeles*
 Bobrick Chemical Co., 111 117 S. Garey St.

Caramel (see Colors, Burnt Sugar)**Carbolic Acid** (see Phenol)**Carbon**

- N. Y., New York City*
 Acme Diamond Tool Co., 56 Liberty St.
 *Diamond Drill Carbon Co., 53-63 Park Row.
N. Y., Niagara Falls
 Acheson Graphite Co.

Carbon (Decolorizing)

- N. Y., New York City*
 *Innis, Speiden & Co., Inc., 46 Cliff St.

Carbon Bisulphide

- Cal., San Francisco*
 Stauffer Chemical Co., 624 California Ave.
Ill., Chicago
 Daigger & Co., A., 52-56 W. Kinzie St.
Me., Portland
 Brown Co.
Mich., Detroit
 Dow Chemical Co.
Mo., St. Louis
 *Heil Chemical Co., Henry, 210-214 S 4th St.
N. Y., Brooklyn
 *Wiarda & Co., John C., 273 Green St.
N. Y., New York City
 Edgertyn Aniline Corp., 118 William St.
 *Independent Chemical Co., 122 West St.
 Merck & Co., 45 Park Place
 National Aniline & Chemical Co., Inc., 21 Burling Slip
 National Gum & Mica Co., 59th St. and 11th Ave.
 Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Chauncey, Westchester Co.
 Stauffer Chemical Co.
N. Y., Penn Yan
 Taylor Chemical Co.
Ohio, Cleveland
 *Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
 Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
W. Va., Charleston
 Rollin Chemical Co., Inc.
- Carbon Dioxide**
- Ill., Chicago*
 *Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
 Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Newark
 National Carbonic Acid Co.
 National Carbonic Gas Co.
N. Y., Brooklyn
 General Carbonic Co., 444 Van Brunt St.
N. Y., New York City
 *Schwenker, Inc., W. M., 342 E. 92d St.
Ohio, Cincinnati
 Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Ohio, Cleveland
 Lennox Chemical Co., 1200 E. 55th St.
 Ohio Chemical & Mfg. Co., 1177 Marquette St.
Pa., Philadelphia
 Carbon Dioxide & Magnesia Co., N. 29th St. and Montgomery Ave.

Carbon Dioxide, Liquefied

N. J., McClellan
Natural Carbonic Gas Co.

Carbon Tetrachloride

Cal., San Francisco
Great Western Electrochemical Co.
Ill., Chicago
Daigger & Co., A., 54-56 W. Kinzie St.
Me., Portland
Brown Co.
Mich., Midland
Dow Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Inc., W. M., 340-344 E. 92d St.
Southern Oil & Chemical Co., 15 Park Row
Warner Chemical Co., The, 52 Vanderbilt Ave.
White Tar Co., 6 Cliff St.
Mo., St. Louis
Mallinckrodt Chemical Works
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Lewis, John D.
W. Va., Charleston
Rollin Chemical Co., Inc.

Carbon, Vegetable

N. Y., New York City
Industrial Chemical Co., 200 Fifth Ave.

Carbonic Acid Gas (*see Carbon Dioxide*)**Carbonizer, Pack**

Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Carbonyl Chloride

N. Y., New York City
*Hemingway, Inc., Frank

Carborundum

N. Y., Niagara Falls
Carborundum Co.

Carmine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St

Carmine, Pure

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Carnotite (*see Uranium Ore*)

Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.

Carpolene (*see Preservative, Wood*)**Casein**

Cal., San Francisco
California Central Creameries
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Bird & Co., J. A., & W., 88 Pearl St.
N. Y., Hobart
Sheffield By-Product Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Innis, Speiden & Co., Inc., 46 Cliff St.
National Milk Sugar Co., 13 Park Row
*Tennant, C., Sons & Co., 100 William St.
N. Y., Owego
American Casein Co.
National Casein Co.
N. Y., Rochester
Merrell-Soule Co.
Pa., Philadelphia
Union Casein Co., 2314 Wood St.
Scotland, Glasgow
Gemmell & Co., Wm. N., 142 Queen St.

Caustic Potash (*see Potassium Hydroxide*)**Caustic Soda** (*see Sodium Hydroxide*)**Celite**

N. Y., New York City
Celite Products Co., 11 Broadway

Celluloid and Celluloid Substitutes*Del., Wilmington*

DuPont de Nemours & Co., E. I.

Ill., Chicago

Redmanol Chemical Co., 636 W. 22d St.

Mass., Leominster

Viscoloid Co.

N. Y., New York City

Celluloid Co., 30 Washington Place

Celluloid Zapon Co., 200 Fifth Ave.

Fiberloid Corp., 55 5th Ave.

General Bakelite Co., 2 Rector St.

Cellulose Acetate*Mich., Midland*

Dow Chemical Co.

Cement, Acid Proof*Ga., Atlanta*

Hood Brick Co., B. Mifflin, Candler Bldg.

N. C., Charlotte

Chemical Construction Co.

N. Y., New York City

General Bakelite Co., 2 Rector St.

Kellogg Co., M. W., 90 West St.

Toch Bros., 320 Fifth Ave.

N. Y., Rochester

General Filtration Co., Cutler Bldg.

Pa., Philadelphia

Pecora Paint Co., 4th and Lawrence Sts.

R. I., Providence

U. S. Gutta Percha Paint Co.

Cement, Acid Proof, Duro*Pa., Philadelphia*

Electro Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Cement, Adhesive*N. Y., New York City*

General Bakelite Co., 2 Rector St.

National Gum & Mica Co., 59th St. and 11th Ave.

Cement, Alundum*Mass., Worcester*

Norton Co.

Cement, Asbestos*Ill., Chicago*

American Radiator Co., 816 S. Michigan Ave.

N. J., Lincoln

Atlas Mineral Products Co.

N. Y., New York City

Johns-Manville Co., H. W., Madison Ave. and 41st St.

N. Y., Tonawanda

National Roofing Co., 164 Fillmore Ave.

Ohio, Lockland

Carey Mfg. Co., Phillip

Pa., Ambler

Keasbey & Mattison Co.

Pa., Erie

Watson Co., H. F.

Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Pecora Paint Co., 4th & Lawrence Sts.

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Pa., Valley Forge

Ehret Magnesia Mfg. Co.

Cement, Asphalt*N. Y., New York City*

Texas Co., 17 Battery Place

Pa., Philadelphia

Barber Asphalt Paving Co., Land Title Bldg.

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Cement, Bakelite*N. Y., New York City*

General Bakelite Co., 2 Rector St.

Cement, Belt*Conn. Hartford*

Jewell Belting Co.

Del., Wilmington

Du Pont Chemical Works

Hercules Powder Co., 10th and Market Sts.

Mo., St. Louis

Shultz Belting Co., 402 Barton St.

N. Y., New York City

International Smokeless Powder & Chemical Co., 120 Broadway

Laurence Belting Co., 111 Chambers St.

Schieren Co., Chas. A., 30-38 Ferry St.

Ohio, Cincinnati

Bradford Belting Co., 201 Walnut St.

Fries & Fries, 1501-13 W. 6th St.

Pa., Philadelphia

Alexander Brothers, 414 N. 3d St.

Cement, Black*Mass., Boston*

Flintkote Mfg. Co., 88 Pearl St.

Cement, Chrome*Ohio, Cleveland*

Stowe-Fuller Co., Rockefeller Bldg.

Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Harbison-Walker Refractories Co., Farmers Bank Bldg.

Cement Coatings*N. Y., Long Island City*

Horn Co., A. C.

N. Y., New York City

Berry Bros., 262 Pearl St.

Cement, De Khotinsky*Ill., Chicago*

Central Scientific Co., 460 E. Ohio St.

Cement, Fire Brick*N. J., Lincoln*

Atlas Mineral Products Co.

Cement, Furnace*N. J., Jersey City*

Dixon Crucible Co., Joseph

N. J., Lincoln

Atlas Mineral Products Co.

Cement, Furnace, High Temperature*N. J., Lincoln*

Atlas Mineral Products Co.

*N. Y., New York City*Quigley Furnace Specialties Co., Inc.,
26 Courtlandt St.*Ohio, Cleveland*

Stowe-Fuller Co., Rockefeller Bldg.

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Cement, Gas Retort*N. J., Lincoln*

Atlas Mineral Products Co.

Cement, Graphite*Mich., Saginaw*

United States Graphite Co.

N. J., Jersey City

Dixon Crucible Co., Joseph

Cement, Insulating*N. Y., New York City*

Celite Products Co., 11 Broadway

Johns-Manville Co.

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Cement, Keene's American*Ill., Chicago*United States Gypsum Co., 205 W.
Monroe St.*Mo., St. Louis*Acme Cement Plaster Co., Frisco
Bldg.**Cement, Leather Belt, Water-proof***Mo., St. Louis*Reardon Glue Mfg. Co., 127 Clinton
St.*Ohio, Akron*

Goodrich Co., B. F.

Ohio, Cincinnati

Bradford Belting Co., 201 Walnut St.

Fries & Fries, 1501-13 W. 6th St.

Cement Lifts, Acid Proof*N. C., Charlotte*

Chemical Construction Co.

Cement, Magnesite (see Cement, Asbestos)**Cement, Porcelain***N. J., Bloomfield*

Condensite Co. of America

Cement, Portland*Cal., Los Angeles*California Portland Cement Co., 3d
and Spring Sts.Riverside Portland Cement Co., Title
Insurance Bldg.*Cal., San Francisco*Cowell Portland Cement Co., 2 Market
St.

Pacific Portland Cement Co.

Riverside Portland Cement Co.

Santa Cruz Portland Cement Co.

Standard Portland Cement Corpora-
tion*Colo., Denver*Colorado Portland Cement Co., Ideal
Bldg.

Three Forks Portland Cement Co.

Ga., Rockmart

Southern States Portland Cement Co.

*Ill., Chicago*Chicago Portland Cement Co., 30 N.
La Salle St.Universal Portland Cement Co., 208
S. La Salle St.*Ill., La Salle*

La Salle Portland Cement Co.

*Iowa, Mason City*Northwestern States Portland Cement
Co.*Kans., Independence*

Western States Portland Cement Co.

Md., Baltimore

Tidewater Portland Cement Co.

Mass., Boston

Eastern Clay Goods Co., 141 Milk St.

*Mo., Kansas City*Dewey Portland Cement Co., 400
Scarritt Bldg.Meramec Portland Cement & Material
Co.*Mo., St. Louis*St. Louis Portland Cement Co., In-
ternational Life Bldg.

Union Sand & Material Co.

Neb., Omaha

Nebraska Portland Cement Co.

Cement, Portland—cont.

- N. J., Stewartsville*
Edison Portland Cement Co.
- N. Y., New York City*
Alsen's American Portland Cement Works, 25 Broadway
Atlas Portland Cement Co., 30 Broad St.
- Ohio, Cleveland*
Sandusky Cement Co., Engineer's Bldg.
- Ore., Oswego*
Oregon Portland Cement Co.
- Pa., Allentown*
Allentown Portland Cement Co.
Lehigh Portland Cement Co.
- Pa., Easton*
Alpha Portland Cement Co.
- Pa., Philadelphia*
Coosa Portland Cement Co., Stock Exchange Bldg.
Giant Portland Cement Co., Penna. Bldg.
Vulcanite Portland Cement Co., Land Title Bldg.
- Tenn., Chattanooga*
Dixie Portland Cement Co.
- Tenn., Kingsport*
Cinchfield Portland Cement Corp.
- Utah, Brigham*
Ogden Portland Cement Co.
- Utah, Ogden*
Union Portland Cement Co.
- Wash., Spokane*
International Portland Cement Co.

Cement, Refractory

- Mass., Worcester*
Norton Co.
- N. J., Jersey City*
Dixon Crucible Co., Joseph
- N. J., Lincoln*
Atlas Mineral Products Co.
- N. Y., New York City*
Johns-Manville Co., H. W., 296 Madison Ave.
- A. Y., Niagara Falls*
Carborundum Co.
- Ohio, Cleveland*
Stowe-Fuller Co., Rockefeller Bldg.

Cement, Rubber

- Cal., San Francisco*
Cook Belting Co., H. N., 401 Howard St.
- Mass., Boston*
Boston Belting Co., 84 Linden Park Station
- N. J., Milltown*
Michilin Tire Co.
- N. Y., New York City*
Goodyear Rubber Co., 787 Broadway
U. S. Rubber Co., 1790 Broadway

- Ohio, Akron*
Firestone Tire & Rubber Co.
Goodrich Co., B. F.
- Ohio, Ashland*
Faultless Rubber Co.

Cement, Waterproof

- Del., Wilmington*
Du Pont Chemical Works
Hercules Powder Co., 10th and Market Sts.
- Mo., St. Louis*
Certain-teed Products Co., 314 N. Broadway
- N. Y., Buffalo*
Hercules Waterproof Cement Co., Mutual Life Bldg.
- N. Y., Long Island City*
Horn, A. G., Co.
- N. Y., New York City*
Amalgamated Paint Co., 42 Broadway
Texas Co., 17 Battery Pl.
Toop Bros., 320 Fifth Ave.
- N. Y., Tonawanda*
National Roofing Co., 164 Fillmore Ave.
- Ohio, Cincinnati*
Fries & Fries, 1501-13 W. 6th St.
- Ohio, Cleveland*
Sandusky Cement Co., Engineers Bldg.
- Ohio, Sandusky*
Sandusky Portland Cement Co.
- Pa., Pittsburgh*
Armstrong Cork & Insulation Co.

Ceramic Colors (see Colors, Ceramic)**Ceresine**

- Ill., Chicago*
*Daigger & Co., A., 54 W. Kinzie St.
- N. Y., New York City*
*Behrend, F., 54 Front St.
*Salomon & Bro., L. A., 216 Pearl St.
*Strahl & Pitsch, 141 Front St.
- Pa., Easton*
Baker & Adamson Chemical Co.

Cerium (Metal)

- N. J., Bayonne*
Standard Chemical Co.
- N. Y., New York City*
Norton Laboratories, 296 Madison Ave.
- Pa., Philadelphia*
Foote Mineral Co., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Cerium Carbonates

- Ill., Chicago*
Lindsay Light Co., 161 E. Grand Ave.

Cerium Chloride

N. Y., New York City
 Merck & Co., 45 Park Pl.
Pa., Philadelphia
 Foote Mineral Co., 107 N. 19th St.

Cerium Nitrate

Ill., Chicago
 Lindsay Light Co., 161 E. Grand Ave.
Pa., Philadelphia
 Foote Mineral Co., 120 N. 19th St.

Cerium Oxalate

Ill., Chicago
 Lindsay Light Co., 161 E. Grand Ave.
Mo., St. Louis
 Mallinckrodt Chemical Works, 3600
 N. 2nd St.
N. Y., New York City
 Merck & Co., 45 Park Pl.
Pa., Philadelphia
 Foote Mineral Co., Inc., 113 N. 19th
 St.

Cerium Phosphate

Pa., Philadelphia
 Foote Mineral Co., Inc., 113 N. 19th
 St.

Cerium Sulphate

Pa., Philadelphia
 Foote Mineral Co., Inc., 113 N. 19th
 St.

Chalk, Precipitated

Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
 *Baker & Bro., H. J., 81 Fulton St.
 *Chrystal, Charles B., 11 Cliff St.
 *Dunn & Kruse, 53 Park Row
 *Industrial Chemical Co., 5th Ave.
 Bldg.
 *National Aniline & Chemical Co., Inc.,
 21 Burling Slip
 *Salomon, L. A., & Bro., 216 Pearl St.

Chalk, Prepared

N. Y., New York City
 *Baker & Bro., H. J., 81 Fulton St.

Charcoal

Cal., Berkeley
 Catalytic Chemical Co.
Cal., San Francisco
 Noble Electric Steel Co., 995 Market
 St.
Del., Wilmington
 DuPont de Nemours & Co., E. I.
Fla., Gull Point
 Pensacola Tar & Turpentine Co.
Fla., Jacksonville
 Florida Woods Products Co.
Ga., Savannah
 Chatham Mfg. Co.

Ill., Chicago

Charcoal Supply Co.
 *Daigger & Co., A., 54 W. Kinzie St.
 Laboratory Materials Co., 7404 Calu-
 met Ave.

Ky., Kragon

Kentucky Wood Products Co., Inc.

La., New Orleans

American Turpentine & Tar Co.
 Forest Products Co.

Mich., Boyne City

Boyne City Chemical Co.

Mich., Cadillac

Cadillac Chemical Co.
 Cummer, Diggins Co.

Mich., Detroit

Charcoal Iron Co. of America
 Desmond Charcoal & Chemical Co., 71
 Lieb St.

Mich., East Jordan

East Jordan Chemical Co.

Mich., Wells

Delta Chemical Co.

Mich., West Branch

Mashek Chemical & Iron Co.

Mo., Kansas City

Alabama Charcoal Co.

N. Y., Brooklyn

Wiarda & Co., John C., 259 Green St.

N. Y., Buffalo

Wood Products Co.

N. Y., New York City

Binney & Smith Co., 81 Fulton St.
 Cooper & Co., Charles, 194 Worth St.
 *Fuller & Co., Ralph L., 4 Rector St.
 Georgia Pine & Turpentine Co., 160
 Perry St.

Industrial Chemical Co., Inc., Fifth
 Ave. Bldg.

N. Y., Niagara Falls

National Electrolytic Co.

N. Y., Olean

Keystone Wood Products Co.
 Lackawanna Chemical Co.

N. Y., Syracuse

Will & Baumer Co.

Ohio, Cleveland

Cleveland-Cliffs Iron Co., 233 Bank St.
 *Harshaw, Fuller & Goodwin Co., 317
 Electric Bldg.

Ohio, Ironton

Phipps Charcoal Co.

Ore., Portland

Oregon Wood Distilling Co.

Pa., Bradford

Coryville Chemical Co.
 Maryland Wood Products Co.
 Nusbaum Chemical Co.

Pa., Mayburg

Tionesta Valley Chemical Co., Inc.

Pa., Pittston

Wyoming Chemical Co.

Pa., Ridgeway

Penn Chemical Co.

Charcoal, Powdered

N. Y., New York City
Industrial Chemical Co., Fifth Ave.
Bldg.

Chemicals, Agricultural

Ga., Savannah
Barker Chemical Co.
Crum & Co., W. R.

Ill., Chicago
Armour Fertilizer Works, Union Stock
Yards

*Daigger & Co., A., 54 W. Kinzie St.
Swift & Co., Union Stock Yards

La., New Orleans
Standard Guano & Chemical Mfg. Co.,
Whitney Central Bldg.

Md., Baltimore
*Cottman & Co., J. H., Keyser Bldg.
Ober & Sons Co., G., Fidelity Bldg.

*Struven & Co., Chas. M., 114 S. Fred-
erick St.

*Walter Co., Edw. J., 803 American
Bldg.

*White & Co., Thos. H., Reed Bldg.

Mass., Boston
New England Gas & Coke Co., 24 West
St.

N. Y., New York City
*Alexander & Co., Inc., C. S., 61
Broadway

American Agricultural Chemical Co.,
2 Rector St.

Marden, Orth & Hastings Corp'n, 61
Broadway

*Nitrate Agencies Co., 102 Pearl St.

Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.

Va., Richmond
Virginia-Carolina Chemical Co.

Chemicals, Analytical (*see Chem-
icals, Laboratory*)**Chemicals, Aromatic**

N. Y., New York City
*Fritzsche Bros., 82-84 Beekman St.
Ungerer & Co., 273 Pearl St.

Chemicals, Bacteriological

Mich., Detroit
Digestive Ferments Co.

Pa., Philadelphia
Harmer Laboratories Co., 1704 Mar-
ket St.

Chemicals, Blue Print

N. Y., New York City
Pfizer & Co., Inc., Chas., 81 Maiden
Lane

**Chemicals, Blue Print Sen-
sitzing**

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Chemicals, Ceramic

N. Y., New York City
Roessler & Hasslacher Chemical Co.,
100 William St.

Chemicals, C. P. (*see Chemicals,
Laboratory*)**Chemicals, Dairy**

Mich., Detroit
Digestive Ferments Co.

Chemicals, Dyers

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Jaack Co., Louis, 257 Front St.
Marden, Orth & Hastings Corp'n, 61
Broadway

N. Y., Wappingers Falls
Standard Aniline Products, Inc.

Pa., Pittsburgh
Pearsite Co., Oliver Bldg.

Chemicals, Engravers

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
National Steel & Copper Plate Co.,
542 S. Dearborn St.

Chemicals, Fireworks

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61
Broadway
*Williams, John T., & Son, Inc., 100
Broadway

Chemicals, Glassmakers

N. Y., New York City
Battelle & Renwick, 80 Maiden Lane
*Drakenfeld & Co., B. F., 50 Murray
St.

Marden, Orth & Hastings Corp'n, 61
Broadway

*Williams, John T., & Sons, Inc., 100
Broadway

Pa., Philadelphia
Meyer & Sons, J., 480-482 Bourse
Bldg.

Chemicals, Heavy (*see Specific
Headings*)**Chemicals, Industrial** (*see Specific
Headings*)

Chemicals, Laboratory*Cal., Berkeley*

University Apparatus Co.

Cal., San Francisco

Braun-Knecht-Heimann Co., 576 Mission St.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

*Laboratory Materials Co., 640 E. 71st St.

Sargent & Co., E. H., 155-165 East Superior St.

Mass., Boston

*Knott

*Metcalf Co., 535 Boylston St.

Mich., Detroit

*Digestive Ferments Co.

*Mo., St. Louis**Heil Chemical Mfg. Co., 216 S. 4th St.
Mallinckrodt Chemical Works, 3600 N. 2d St.*N. J., Phillipsburg*

*Baker Chemical Co., J. T.

N. Y., New York City

*Eimer & Amend, 205-211 Third Ave.

Empire Laboratory Supply Co., Inc.,
218 E. 37th St.

General Chemical Co., 25 Broad St.

Merck & Co., 45 Park Pl.

*Palo Co., 90 Maiden Lane

*Schell Chemical Co., Inc., 56 Pine St.

*Squibb & Sons, R. E., 80 Beekman St.

Ohio, Columbus

*Laboratory Supply Co., 236 N. 3rd St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Square

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Chemicals, Leather*Mass., Boston*

Atteaux & Co., F. E., 176 Purchase St.

N. J., Jersey City

Onyx Oil & Chemical Co., 190 Warren St.

N. Y., New York City

*Batelle & Renwick, 80 Maiden Lane

Cooper & Co., Charles, 194 Worth St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Pa., Philadelphia

Rohm & Haas Co., 40 N. Front St.

Chemicals, Linoleum*Pa., Philadelphia*

Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Medicinal (see Chemicals, Pharmaceutical)**Chemicals, Metallurgical (see Specific Headings)****Chemicals, Mining (see Specific Headings)****Chemicals, Oil Cloth***Pa., Philadelphia*

Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Oil Manufacturers

(see Specific Headings)

Chemicals, Oil Refining (see Specific Headings)**Chemicals, Packers (see Specific Headings)****Chemicals, Paint***Ill., Chicago*

Barrett, M. L., & Co., 233 N. Lake St.

*Daigger & Co., A., 54 W. Kinzie St.

Mo., Kansas City

Hood, Abner, Chemical Co., 1409 W. 10th St.

N. Y., New York City

Marden, Orth & Hastings Corp'n, 61 Broadway

N. Y., Rosebank

Dreyfus Co., L. A.

Pa., Philadelphia

Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Papermakers*Mich., Kalamazoo*

Western Paper Makers Chemical Co.

N. Y., New York City

*Battelle & Renwick, 80 Maiden Lane

*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Marden, Orth & Hastings Corp'n, 61 Broadway

*Schell Chemical Co., Inc., 56 Pine St.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., Widener Bldg.

Chemicals, Perfumers*Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

Chemicals, Pharmaceutical*Ala., Montgomery*

Bear Lewis Drug Co.

Cal., San Francisco

*McMains & Co., A. H., 24 California St.

Chemicals, Pharmaceutical— *cont.*

England, London

*Dexters, Ltd., 362 City Road.

England, Wolverhampton

Reade Bros. & Co., Ltd.

Ill., Chicago

Armour & Co.

Cutter Laboratory of Ill., 180 N. Dearborn St.

*Daigger & Co., A., 54 W. Kinzie St.

Ill., Peoria

Allaire, Woodward & Co.

Ind., Indianapolis

Lilly & Co., Eli, 224 E. McCarthy St.

Pitman Moore Co.

Md., Baltimore

Hynson, Westcott & Co., Charles and Franklin Sts.

Sharpe & Dohme, 303 W. Pratt St.

Mass., Boston

Eastern Drug Co., 21 Fulton St.

Levinstein & Co., Inc.

Metcalf Co., Theo., 535 Boylston St.

Patch & Co., E. L., 99 North St.

*Stickney & Poor Spice Co., 184 State St.

Mich., Charlotte

Charlotte Drug Co.

Mich., Detroit

Digestive Ferments Co., 240 Henry St.

Nelson, Baker & Co., 58 Brooklyn Ave.

Parke, Davis & Co.

Stearns & Co., Frederick

Mich., Kalamazoo

Upjohn Co.

Minn., St. Paul

Noyes Bros. & Cutler, 376 Sibley St.

Mo., St. Louis

Barnes Mfg. Co., 302 Valentine St.

Donzelot & Son, Eugene, 16 S. Main St.

Mallinckrodt Chemical Works.

Merrell Drug Co., I. S., 4th and Market Sts.

Neb., Omaha

Cudahy Packing Co.

N. J., Jersey City

Colgate & Co.

Reed & Carnrick, 42 Germania Ave.

N. J., New Brunswick

Johnson & Johnson

Squibb & Sons, E. R.

N. J., Old Bridge

Bloomfield Mills Co.

N. Y., Albany

Albany Chemical Co.

N. Y., Brooklyn

Bristol-Myers Co., 281 Greene Ave.

Houglan Laboratory, Pacific and Henry Sts.

N. Y., Buffalo

Empire Drug Co., 86 Seneca St.

N. Y., Long Island City

American Druggists Syndicate

N. Y., Lebanon

Tilden Chemical Co.

N. Y., New York City

*Allied Chemical Exchange, Inc., 95-97 Liberty St.

*Anderson & Co., P. E., 99 John St.

*Battelle & Renwick, 80 Maiden Lane

Bayer Co., Inc., 117 Hudson St.

Cooper & Co., Charles, 194 Worth St.

Croeniger & Co., 99 Wall St.

Dodge & Olcott, 87 Fulton St.

*Downe & Co., 102 Fulton St.

Fairchild Bros. & Foster, 74 Laight St.

*Fritzsche Bros., 84 Beekman St.

*Fuerst Bros. & Co., 2 Stone St.

*Hemingway, Inc., Frank

Heyden Chemical Co., 135 William St.

Hilliers' Sons Co., R., 100 William St.

Hoffman-La Roche Chemical Works, 440 Washington St.

*Hopkins & Co., J. L., 100 William St. Independent Chemical Co., 72 Front St.

Lederle Laboratories, 39 W. 38th St.

Lehn & Fink, Inc., 120 William St.

*Lueders & Co., Geo., 218 Pearl St.

McKesson & Robbins, Inc., 91 Fulton St.

*Magnus, Mabec & Reynard, 257 Pearl St.

Marx & Rawolle, 100 William St.

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

New York Quinine & Chemical Co.

*Peck & Velsor, 8 Gold St.

Pfizer & Co., Inc., Chas., 81 Maiden Lane

*Rockhill & Vietor, 114 John St.

Roessler-Hasslacher Chemical Co., 100 William St.

*Schering & Glatz, 150 Maiden Lane

*Schieffelin & Co., 170 William St.

Squibb & Sons, E. R., 80 Beekman St.

*Stillwell & Co., A. A., 28 Cliff St.

Thurston & Braidich, 130 William St.

Warner Chemical Co., 52 Vanderbilt Ave.

Weaver & Sterry, Ltd., 179 Pine St.

Wolff, Harry W., 50 E. 41st St.

N. Y., Pearl River

Lederle Antitoxin Laboratory

N. Y., Saratoga Springs

Harvey & Co., G. F.

Ohio, Cincinnati

Lloyd Bros., Plum and Court Sts.

Merrell Chemical Co., Wm. S., 5th and Pike Sts.

Proctor & Gamble

Chemicals, Pharmaceutical— *cont.*

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

*McIlvaine Bros., 15th and Hamilton Sts.

Mulford Co., H. K., 428 S. 13th St.

Powers-Weightman-Rosengarten Co.

Shoemaker & Co., Robert, 201 N. 4th St.

Smith, Kline & French Co., 431 Arch St.

Wampole & Co., H. K., 428 Fairmount Ave.

Wyeth & Bros., John, 11th and Wash Ave.

Switzerland, Basle

Sandoz Chemical Works, 60 Fabrikstrasse

Utah, Ogden

Ogden Wholesale Drug Co.

Va., Richmond

Interstate Commerce Co., W. Broad and Meadow Sts.

Wis., Fond du Lac

Huber & Fuhrman Drug Mills

Chemicals, Photographic

Ill., Chicago

Burke & James, Inc., 240 E. Ontario St.

*Sears, Roebuck & Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Binghamton

Anso Co.

N. Y., New York City

Berlin Aniline Works, 213 Water St.

*Fuerst Bros. & Co., 2-4 Stone St.

General Chemical Co., 25 Broad St.

*Gennert, G., 24 E. 13th St.

Merck & Co., 45 Park Place

Parex Mfg. Co., 249 Pearl St.

Wolff, Harry W., 50 E. 41st St.

N. Y., Rochester

American Photo Chemical Co., Inc.

Bausch & Lomb Optical Co.

Defender Photo Supply Co.

Eastman Kodak Co.

Ohio, Cincinnati

Prince, L. M., Co., 108 W. 4th St.

Pa., Philadelphia

*Phillips & Jacobs, 622 Race St.

Chemicals, Pottery (*see Specific Headings*)

Chemicals, Printing Ink

Pa., Philadelphia

Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Rare Organic

N. Y., New York City

Van Dyk & Co., 4-6 Platt St.

Chemicals, Reduction Ore (*see Specific Headings*)

Chemicals, Refrigeration (*see Specific Headings*)

Chemicals, Rubber Manufacturers (*see Specific Headings*)

Chemicals, Steel

Pa., Philadelphia

Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Steel Manufacturers (*see Specific Headings*)

Chemicals, Tanners (*see Chemicals, Leather*)

Chemicals, Textile

Mass., Boston

Atlantic Chemical Co., 50 Congress St.

*Durfee, Winthrop C., 516 Atlantic Ave.

U. S. Color & Chemical Co., 93 Broad St.

N. J., Jersey City

Oynx Oil & Chemical Co., 190 Warren St.

N. Y., New York City

*Battelle & Renwick, 80 Maiden Lane

*Farquhar, H. D., 230 W. 17th St.

Herrick & Voigt, 68 Maiden Lane

Marden, Orth & Hastings Corp'n, 61 Broadway

Metz & Co., Herman A., Inc., 122 Hudson St.

*Schell Chemical Co., 56 Pine St.

N. Y., Wappingers Falls

Standard Aniline Products Co.

Pa., Philadelphia

Philadelphia Textile Chemical Works,

Arrott and P. R. R.

Chemicals, Varnish

Ill., Chicago

*Daigger & Co., A., 51 W. Kinzie St.

N. Y., New York City

*Fuerst Bros & Co., 2 Stone St.

Pa., Philadelphia

Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Water Purifying

Chili Saltpetre (*see Sodium Nitrate*)

China, Clay (*see Clay, China*)

Chloral Hydrate*Mo., St. Louis*

Monsanto Chemical Works, 2d St. and Lafayette Ave.

N. Y., New York City

Hoffman-LaRoche Chemical Works, 440 Washington St.

McKesson & Robbins, Inc., 91 Fulton St.

Merck & Co., 45 Park Pl.

*Schering & Glatz, 150 Maiden Lane

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Chloramine-T*Ill., La Salle*

Carus Chemical Co.

Mo., St. Louis

Monsanto Chemical Works, 2nd St. and Lafayette Ave.

Chloranilin*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Chlorbenzene*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Midland

Dow Chemical Co.

N. Y., Niagara Falls

Niagara Alkali Co., Buffalo Ave. and Union St

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Hooker Electrochemical Co., 40 Wall St.

Marden, Orth & Hastings Corp'n, Inc., 61 Broadway

National Aniline & Chemical Co., Inc., 21 Burling Slip

Warner Chemical Co., 52 Vanderbilt Ave.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

W. Va., Charleston

Rollin Chemical Co., Inc.

Chlorbenzol (see *Chlorbenzene*)**Chlorcosane***Mo., St. Louis*

Monsanto Chemical Works, 2nd St. and Lafayette Ave.

Chloresterine*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Chlorhydrin*Mich., Midland*

Dow Chemical Co.

Chloride, Calcium-Magnesium*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Schwenker, Inc., W. M., 340-344 E. 92d St.

W. Va., Malden

Dickinson Co., J. Q.

Chloride of Lime (see also *Calcium Hypochlorite and Bleach*)*Cal., San Francisco*

Braun-Knecht-Heimann Co., 584 Mission St.

Rogers Chemical Co., R. R., 527-535 Commercial St.

Md., Baltimore

*Walter Co., Edw. J., 803 American Bldg.

Mich., Midland

Dow Chemical Co.

N. Y., Albany

Wander & Son Chemical Co., S., 135 Church St.

N. Y., New York City

*Doherr, Grimm & Co., 87 Gold St.

Edgertyn Aniline Corp., 118 William St

Flotation Oil & Chemical Co., 2 Rec-tor St.

Hooker Electrochemical Co., 40 Wall St.

*Innis, Speiden & Co., 46 Cliff St.

Roessler & Hasslacher Chemical Co., 100 William St.

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co.

Va., Saltville

Mathieson Alkali Works

Chlorine*Cal., Pittsburgh*

Great Western Electrochemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Me., Portland

Brown Co.

Electron Chemical Co., 531 Congress St.

N. J., Bloomfield

Condensite Co. of America.

Chlorine—cont.*N. Y., New York City*

*Bush, Beach & Gent, Inc., 80 Maiden Lane

Electro Bleaching Gas Co., 18 E. 41st St.

General Chemical Co., 25 Broad St.

Hooker Electro Chemical Co., 40 Wall St.

*Innis, Speiden & Co., 46 Cliff St.

Metal & Thermit Corporation, 120 Broadway

Roessler & Hasslacher Chemical Co., 100 William St.

Warner Chemical Co., 52 Vanderbilt Ave.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

Castner Electrolytic Alkali Co.

Niagara Smelting Corporation

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., 115 Chestnut St.

R. I., Providence

Arnold, Hoffman & Co.

W. Va., Charleston

Rollin Chemical Co., Inc.

Va., Saltville

Mathieson Alkali Co., Inc.

Chloroform*Cal., San Francisco*

Braun-Knecht-Heimann Co., 584 Mission St.

England, London

American Commerce Co., Ltd., The, 19 St. Bride St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

*Heil Chemical Co., Henry, 210-214 S. 4th St.

Mallinckrodt Chemical Works, 3600 N. 2d St.

Mich., Midland

Dow Chemical Co.

N. H., Portland

Brown Co.

N. J., New Brunswick

Johnson & Johnson

N. Y., Albany

Albany Chemical Co.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

Merck & Co., 45 Park Pl.

Pfizer & Co., Chas., 81 Maiden Lane

Squibb & Sons, E. R., 80 Beekman St.

Chrome Acetate (*see Chromium Acetate*)**Chrome Alum** (*see Alum, Chromium*)**Chrome Bisulphite** (*see Chromium Sulphite*)**Chrome Black***N. J., Passaic*

American Color Mfg. Co.

Wolf & Co., Jacques

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Metz & Co., H. A., 122 Hudson St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Chrome Cement*Pa., Philadelphia*

Lavino & Co., E. J., Bullitt Bldg.

Chrome Chloride (*see Chromium Chloride*)**Chrome Fluoride** (*see Chromium Fluoride*)**Chrome Green, C. P.** (*see also Chromium Oxide*)*N. Y., Glens Falls*

Imperial Color Works, Inc., Warren St.

Chrome Hydroxide (*see Chromium Hydroxide*)**Chrome Lemon***England, Lancashire, Chorley*

Threlfall & Sons, Thomas

Chrome Ore (Chromite)*N. Y., New York City*

*Hardy, Charles, 50 Church St.

Leavitt & Co., C. W., 30 Church St.

Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Foote Mineral Co., 107 N. 19th St.

Pa., Pittsburgh

Harbison-Walker Refractories Co.

Chrome Oxide (*see Chromium Oxide*)**Chrome Red***N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Chrome Sulphate (*see Chromium Sulphate*)

Chrome Yellow*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Mich., Detroit

International Color & Chemical Co.

N. J., Newark

Cawley, Clark & Co.

*N. J., Passaic*American Color Mfg. Co., Gregory
Ave. and River Road.*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.Hellenic Chemical & Color Co., Inc.,
1 Cedar St.Herrick-Voigt Chemical Corporation,
1 Liberty St.

*Ketchum & Co., 65 Fulton St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

*Pa., Philadelphia*French & Co., Samuel H., 4th and Cal-
lowhill Sts.*Pa., Reading*Althouse Chemical Co., 500-540 Pear
St.**Chrome Yellow, C. P.***N. Y., Glen Falls*Imperial Color Works, Inc., Warren
St.**Chromium (Metal)***N. Y., New York City*Metal & Thermit Co., Inc., 120 Broad-
way*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Foote Mineral Co., 107 N. 19th St.

Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Harbison-Walker Refractories Co.

Chromium Acetate*England, Manchester*

Robinson & Co., H. F., Newton Heath

Mass., Boston

Avery Chemical Co., 88 Broad St.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.Holliday, Read & Sons (Ltd.), 160
Franklin St.*Kuttroff, Pickhardt & Co., Inc., 128
Duane St.*Pa., Philadelphia*

Lavino & Co., E. J., Bullitt Bldg.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Chromium Chloride*England, Manchester*

Robinson & Co., H. F., Newton Heath

N. J., Passaic

*Wolf, Jacques & Co.

*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.*Kuttroff, Pickhardt & Co., Inc., 128
Duane St.**Chromium Fluoride***N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Chromium Hydroxide***N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Chromium Oxide (see also Chro-
mium Trioxide)***England, Wolverhampton*

Bailey & Sons, William

Ill., Chicago

*Stresen-Reuter & Hancock, Inc.

Mich., Detroit

International Color & Chemical Co.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Greene St.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Klipstein & Co., A., 644 Greenwich
St.*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Foote Mineral Co., Inc., 111 N. 19th St.

Pa., Pittsburgh

Vitro Mfg. Co., 720 Bessemer Bldg.

Chromium Pyrophosphates*England, Manchester*

Victors, Ltd., Victoria Bldg.

Chromium Sulphate*England, Manchester*

Robinson & Co., H. F., Newton Heath

Mass., Boston

Avery Chemical Co., 88 Broad St.

*Mo., St. Louis**Heil, Henry, Chemical Co., 210-214
S. 4th St.Monsanto Chemical Works, 2d St. and
Lafayette Ave.*N. J., Passaic*

*Wolf, Jacques & Co.

*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.

Merck & Co., 45 Park Place

Squibb, E. R., & Sons, 80 Beekman St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

*Thomas, Arthur H., Co., W. Wash-
ington Square

Chromium Sulphite*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Chromium Trioxide (*see also Chromium Oxide*)*Mo., St. Louis*

*Heil, Henry, Chemical Co., 210-214 S. 4th St.

N. Y., New York City

Merck & Co., 45 Park Pl.

*Squibb, E. R., & Sons, 80 Beekman St.

Ohio, Columbus

*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

*Thomas, Arthur H., Co., W. Washington Square

Chysamine G*Ill., Quincy*

Monroe Color & Chemical Co.

Mass., Boston

Atlantic Dyestuff Co., 88 Ames Bldg.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

*Drug & Dyestuff Corp., 120 Broadway

National Aniline & Chemical Co., 21 Burling Slip

Pa., Reading

Althouse Chemical Co., 500-540 Pearl St.

Chrysoidine*N. Y., Monticello*

Mont Color & Chemical Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Marden, Orth & Hastings Corp'n, 61 Broadway

National Aniline & Chemical Co., 21 Burling Slip

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

R. I., Providence

Industrial Chemical Co., 283 Pitman St.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Chrysophenine*N. J., Passaic*

American Color Mfg. Co., Gregory Ave. and River Road

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

National Aniline & Chemical Co., 21 Burling Slip

Cicutine (Coniine) Hydrobromide*Ill., Chicago*

Abbott Laboratories, The, 4753 Ravenswood Ave.

Citral*N. Y., New York City*

Bush & Co., W. J., 100 William St.

Dodge & Olcott Co., 87 Fulton St.

Citronellol*N. Y., New York City*

Florasynth Laboratories, Inc., 23 Pearl St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Clay*Cal., Los Angeles*

Pacific Mineral Products Co.

Cal., San Francisco

Clark & Sons, 116 Natoma St.

Ind., Evansville

Uhl Pottery Co.

Mass., Boston

Eastern Clay Goods Co.

Mich., Kalamazoo

Western Paper Makers Chemical Co.

Mo., St. Louis

Laclede-Christy Clay Products Co., 1673 Railway Exch. Bldg.

Walsh Fire Clay Products Co., 4070 N. Main St.

N. J., Lincoln

Atlas Mineral Products Co.

N. J., Perth Amboy

Didier-March Co.

N. Y., New York City

*Kuttroff, Pickhardt & Co., Inc., 126 Duane St.

Ohio, Akron

Robinson Clay Products Co., Fuller Bldg.

Ohio, East Akron

Knight, Maurice A.

Pa., Pittsburgh

Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Block*Pa., Pittsburgh*

Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Crucible*Mo., St. Louis*

Laclede-Christy Co., Railroad Exchange Bldg.

N. J., Jersey City

Dixon Crucible Co., Joseph

Pa., Pittsburgh

Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, English Enamel*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Clay, Fire, Ground Plastic*Ill., Oglesby*

Illinois Clay Products Co.

Clay, Pipe*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Clay, Pot*Pa., Pittsburgh*

Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Technical*N. Y., New York City*

Gooble & Co., J., 129 Maiden Lane

Clay, Vallender*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Clay, White China*N. Y., New York City*

*Johns & Co., Inc., 50 Church St.

Cloth Scarlet G.*N. Y., Cook's Falls*

Beaverkill Color & Chemical Co., The

Coal Tar Products (*see Crudes, Intermediates, Dyestuffs*)**Coatings, Acid Proof** (*see also Paints*)*Mich., Detroit*

Trus-Con Laboratories

Mo., St. Louis

Certain-teed Products Corporation, 314 Broadway

N. Y., New York City

Toch Bros., 320 Fifth Ave.

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Cleveland

Glidden Varnish Co., 11001 Madison Ave.

Pa., Philadelphia

Flexible Compound Co., 3607 Haverford Ave.

R. I., Providence

U. S. Gutta Percha Paint Co.

Coatings, Wood*Ohio, Warren*

Goheen Mfg. Co., Main St.

Cobalt (Metal)*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Metal & Thermit Corporation, 120 Broadway

*Sloan & Russell, Inc., 132 Nassau St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co., Electric Bldg.

Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Vitro Mfg. Co., Bessemer Bldg.

Pa., Primos

Primos Chemical Co.

W. Va., Huntington

Standard Ultramarine Co.

Cobalt Acetate*N. Y., New York City*

*Drakenfeld & Co., B. F., 50 Murray St.

*Franco-American Chemical Co., 8 Gold St.

*Harshaw, Fuller & Goodwin Co.

Metal & Thermit Corporation, 120 Broadway.

*Sloan & Russell, Inc., 132 Nassau St.

Cobalt Ammonium Sulphate*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Cobalt Borate

Drakenfeld & Co., B. F., 50 Murray St.

Cobalt Carbonate*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2nd St.

N. Y., New York City

Drakenfeld & Co., B. F., 50 Murray St.

*Sloan & Russell, Inc., 132 Nassau St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

Cobalt Chloride*N. Y., New York City*

*Drakenfeld & Co., B. F., 50 Murray St.

*Sloan & Russell, Inc., 132 Nassau St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

Cobalt Hydrate (*see Cobalt Hydroxide*)**Cobalt Hydroxide***N. Y., New York City*

Drakenfeld & Co., B. F., 50 Murray St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Cobalt Linoleate*N. J., Jersey City*

Sizings Specialties Co.

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

*Sloan & Russell, Inc., 132 Nassau St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Cobalt Nitrate*N. Y., New York City*

*Sloan & Russell, Inc., 132 Nassau St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Cobalt Oleate*N. J., Harrison*

National Oil Products Co., Essex and First Sts.

Cobalt Oxide*England, Wolverhampton*

Bailey & Son, William

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Pittsburgh

Vitro Mfg. Co., 720 Bessemer Bldg.

Cobalt Phosphate*N. Y., New York City*

*Sloan & Russell, Inc., 132 Nassau St.

Cobalt Resinate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Harrison

National Oil Products Co., Essex and First Sts.

Cobalt Resinate, Fused*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Meyer & Sons, J., 480 Bourse Bldg.

Cobalt Resinate, Precipitated*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Cobalt Sulphate*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Cocaine*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Hoffman-LaRoche Chemical Works

Merek & Co., 45 Park Pl.

New York Aniline & Chemical Works

Roessler & Hasslacher Chemical Co., 100 William St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Cochineal*N. Y., New York City*

Berlin Aniline Works, 213 Water St.

Holliday, Read & Co. (Ltd.), 160 Franklin St.

*Klipstein & Co., A., 644 Greenwich St.

*Ransom Co., L. E., 279 Pearl St.

Pa., Philadelphia

Harmer Laboratories Co.

Codeine*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

Hoffman-LaRoche Chemical Works

Merek & Co., 45 Park Pl.

New York Aniline & Chemical Works

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Colchicine*Ill., Chicago*

Abbott Laboratories, The, 4753 Ravenswood Ave.

Ind., Indianapolis

Eli Lilly & Co., 224 E. McCarthy St.

Collodion*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Hercules Powder Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Carlstadt

Franco-American Chemical Co.

N. Y., New York City

Cooper & Co., Chas., 194 Worth St.

McKesson & Robbins, Inc., 91 Fulton St.

Merek & Co., 45 Park Pl.

*Schieffelin & Co., W. H., 170 William St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Collodion, Negative

N. Y., New York City
Eissing Chemical Co., 225 Fifth Ave.

Collodion, U.S.P.

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Colocynthin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Colors (see also Dyestuffs)**Colors, Acid (see also Dyestuffs)**

England, Lancashire, Edensfield
Shaap, Ltd., J. B. & W. R.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Sloan & Russell, Inc., 132 Nassau St.

Colors, Agricultural

Ill., Chicago
Alston-Lucas Paint Co., Wade and Currier Sts.
Mich., Detroit
Detroit White Lead Works, 560 Milwaukee Ave.
N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.
N. Y., New York City
Ansbacher, A. B., & Co., 527 5th Ave.
Devoe, F. W. & C. T. Reynolds Co., Fulton and William Sts.
N. Y., New York City
Kohnstamm & Co., H., 87 Park Place
Pa., Philadelphia
Lucas & Co., John, 322 Race St.

Colors, Alizarine (see Colors and Dyestuffs)**Colors, Aniline (see Aniline)****Colors, Artists' Tube**

N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.

Colors, Brick

Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. & M. C. R. R.
Detroit White Lead Works, 560 Milwaukee Ave.
Pa., Easton
Williams & Co., C. K.

Colors, Butter

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie Ave.
Mass., South Boston
Northern Industrial Chemical Co., 11 Elkins St.
N. Y., Elmira
Thatcher Mfg. Co.
N. Y., Little Falls
Burrell & Co., D. H.
Chr. Hansen's Laboratory, Inc.
N. Y., New York City
*Gowing & Co., Inc., D. H., 47 W. 34th St.
Heller & Merz Co., 505 Hudson Ave.
Vt., Burlington
Wells & Richardson Co.

Colors, Canned Goods (see also Colors, Food)

Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
N. Y., New York City
*Maas, Waldenstein Extract Co., 100 William St.

Colors, Caramel

Ill., Chicago
Sethness Co., 718 N. Curtis St.

Colors, Carmine

N. Y., New York City
*Kuttruff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
N. Y., Rosebank, S. I.
Siegler Co., G.

Colors, Carmoisine

N. Y., New York City
Kalle Color & Chemical Co., 530 Canal St.

Colors, Carnotone

N. Y., New York City
Holliday, Read & Sons, 160 Franklin St.
Kalle Color & Chemical Co., 540 Canal St.

Colors, Celluloid Dips

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Colors, Cement

N. Y., New York City
Toch Bros., 320 Fifth Ave.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Colors, Ceramic

- N. J., Newark*
American Oil & Supply Co.
N. Y., New York City
Roessler & Hasslacher Chemical Co.,
100 William St.
N. Y., Rosebank, S. I.
Siegle Co., G.

Colors, Certified and Technical

- Ill., Chicago*
*Sethness Co., 718 N. Curtis St.
N. Y., New York City
*Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.
Kohnstamm & Co., H., 87 Park Place
*Lueder-, Geo., & Co., 218 Pearl St.
*Magnus, Mabec & Reynard, 257
Pearl St.
Star Extract Works, 8 W. Broadway

Colors, Cheese

- Ill., Chicago*
Creamery Package Mfg. Co., 61 W.
Kinzie Ave.
N. Y., Elmira
Thatcher Mfg Co.
N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Chr., P. O. Box
3099
N. Y., New York City
*Gowing & Co, Inc., D. H., 47 W.
34th St.
Wis., Madison
Marshall Dairy Laboratory, 14
Proudfit St.

Colors, Chrome (see Dyestuffs)**Colors, Chrome, for Printing**

- N. J., Matawan*
Chrome Color Works
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
Hellenic Chemical & Color Co., Inc.,
427 W. 13th St

Colors, Coal Tar (see Dyestuffs)**Colors, Confectioners**

- Ill., Chicago*
Chapman & Smith Co., Washington
Blvd. and S. Carpenter St.
Heller, B., & Co., 3925 Calumet Ave.
N. Y., New York City
Bush & Co, Inc., W. J., 100 William St.
Kohnstamm & Co., H., 83-89 Park
Pl.
National Aniline & Chemical Co., 21
Burling Slip

- N. Y., Rosebank, S. I.*
Siegle Co., G.
Ohio, Dayton
Ritzler, Charles E., Co.
Pa., Hanover
Acme Extract & Chemical Works
Pa., Philadelphia
Ottens, Henry H., Mfg. Co., Inc., 129
S. Front St.

Colors, Diamine

- N. Y., New York City*
Marden, Orth & Hastings Corp'n, 61
Broadway
Producers' Chemical Corporation, 261
Broadway

Colors, Direct (see Dyestuffs)**Colors, Dry**

- Cal., San Francisco*
California Ink Co., 41 Clementina St.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Daigger & Co., A, 52-56 W. Kinzie
St.
Md., Baltimore
Bloede Co., Victor G.
Mass., Boston
Cabot, G. L.
Mich., Detroit
Acme White Lead & Color Works
Detroit White Lead Works
Mich., Grand Rapids
Alabastine Co.
Mo., St. Louis
Certain-teed Products Corporation,
314 Broadway
N. J., Lincoln
Atlas Mineral Products Co., The
N. J., Jersey City
Eagle Printing Ink Co., 265 Gates Ave.
N. J., Newark
Cawley, Clark & Co.
Jaenecke-Ault Co., Ave B and Wright
St.
N. Y., Glen Falls
Imperial Colors Works, Inc.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
Bienenberg Co., A, 67 69 Front St.
*Binney & Smith, 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
Crescent Color & Chemical Works, Inc.
Devoe, F. W. and C. T. Reynolds Co.
Hellenic Chemical & Color Co., Inc.
Heller & Merz Co., 505 Hudson St.
Kohnstamm & Co., H., 87 Park Pl.
Kuttruff, Pickhardt & Co., Inc., 128
Duane St.
Marden, Orth & Hastings Corp'n, 61
Broadway

Colors, Dry—cont.**N. Y., New York City—cont.**

Metz & Co., H. A., 124 Hudson St.
National Gum & Mica Co., 59th St.
and 11th Ave.
National Lead Co., 111 Broadway
Sinclair & Valentine Co., 611 W. 129th
St.
Toch Bros., 320 Fifth Ave.

Ohio, Cincinnati

Ault & Wiborg Co.

Ohio, Cleveland

Fleming Chemical Co., The, 1711
Crawford Road
Glidden Co., Madison Ave. and Berea
Road

Pa., Easton

Williams & Co., C. K.

Colors, Dry Earth**N. Y., New York City**

*Baker & Bro., H. J., 81 Fulton St.

Colors, Earth**Ill., Chicago**

*Stresen-Reuter & Hancock, Inc.

N. Y., New York City

Heller & Merz Co., 505 Hudson St.

*Smith & Co. J. Lee, 23 Jacob St.

*Waldo, E. M. & F., 11 Broadway

Colors, Enamel**N. Y., Brooklyn**

Masury, J. W., & Son, 50 Jay St.

Pa., Pittsburgh

Vitro Mfg. Co., Bessemer Bldg.

Colors, Food**Ill., Chicago**

Barrett & Co., M. L., 233 W. Lake Ave.

Beekler Co., Jno. G., 722 Curtis St.

Heller & Co., B., Calumet and 40th St.

Hutchinson & Son, W. H., 196 Des-
plaines St.

Kelso & Co., 559 W. Quincy St.

Price Flavoring Extract Co., 237 E.
Superior St.

Sethness Co., 718 N. Curtis St.

Ill., Quincy

Monroe Drug Co.

Md., Baltimore

Bloede Co., Victor G.

Mass., Boston

Murray Co., 224 State St.

Mich., Detroit

Digestive Ferments Co.

N. J., Newark

Central Dyestuff & Chemical Co.,
Plum Pt. Lane

N. J., West Hoboken

Palisade Mfg. Co.

N. Y., Brooklyn

Perservaline Mfg. Co., 854 Lorimer
Ave.

N. Y., Little Falls

Hansen's Laboratory, Chr., P. O. Box
3099

N. Y., New York City

*Bush, W. J., & Co., 100 William St.

Chaskel Chemical Co., 265 W. Broad-
way

Gowing & Co., Inc., D. H., 47 W. 34th
St.

Kohnstamm, H., & Co., 87 Park Place

*Lathrop & Co., Inc., H. R., 200 Water
St.

*Maas & Waldstein Co., 100 William
St.

Nitrate Agencies Co., 85 Water St.

Williams Mfg. Co., 1947 1st Ave.

N. Y., Potsdam

Thatcher, H. D., & Co.

N. Y., Rosebank, L. I.

Siegle Co., G.

Ohio, Cincinnati

Alexander Co., M. H., 226 E. Front St.

Cincinnati Extract Works Co., 226 E.
Pearl St.

Pa., Philadelphia

Twitshell Co., S., 225 Vine St.

Va., Richmond

Sauer Co., C. F.

Colors, Glass (see also Colors, Ceramic)**N. Y., New York City**

*Drakenfeld, B. F., & Co., 50 Murray
St.

Pa., Pittsburgh

Vitro Mfg. Co., Bessemer Bldg.

Colors, Ink**N. J., Newark**

Central Dyestuff & Chemical Co.,
Plum Pt. Lane.

Colors, Japan**Cal., San Francisco**

Fuller & Co., W. P.

Ill., Chicago

Adams & Elting Co., 712 Washington
Blvd.

Chicago Varnish Co., 2100 Elston Ave.

Mich., Detroit

Acme White Lead & Color Works, St.

Aubin Ave. and M. C. R. R.

Boydell Bros. White Lead & Color
Co., 18 Congress St.

Detroit White Lead Works, 560 Mil-
waukee Ave.

N. Y., Brooklyn

Masury, J. W., & Son, 50 Jay St.

Moore & Co., Benj., 231 Front St.

Colors, Japan—cont.*N. Y., New York City*

Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

*Longman & Martinez, 207 Pearl St.

Valentine & Co., 456 4th Ave.

Ohio, Dayton

Lowe Bros. Co.

Pa., Philadelphia

French & Co., Samuel H., 4th and Calowhill Sts.

Graves Co., N. Z., 22 S. 3d St.

Lucas & Co., John, 322 Race St.

Colors, Lake (*see also Colors, Dry*)*N. J., Newark*

Central Dyestuff & Chemical Co., Plum Pt. Lane

N. Y., Glen Falls

Imperial Colors Works, Inc.

N. Y., New York City

Hellenic Chemical & Colors Co., Inc., 1 Cedar St.

Heller & Merz, 503 Hudson St.

Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Marden, Orth & Hastings Corp'n, Inc., 61 Broadway

National Gum & Mica Co., 59th St. and 11th Ave.

Colors, Leather (*see also Colors, Pigment*)*Mass., Boston*

Atteaux & Co., F. E.

N. J., Newark

Central Dyestuff & Chemical Co., Plum Pt. Lane

N. Y., New York City

Cassella Color Co., 182 Front St.

*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Metz & Co., H. A., 122 Hudson St.

Nitrate Agencies Co., 85 Water St.

Stamford Mfg. Co., 82 Wall St.

Colors, Lustre*N. J., Newark*

Hanovia Chemical & Mfg. Co., Chestnut St. & N. J. Railroad Ave.

Colors, Malt*N. Y., New York City*

Williamson & Co., Inc., D. D., 86 Fulton St.

Colors, Marble*N. Y., New York City*

Devoe, F. W., & C. T. Reynolds Co., Fulton and William Sts.

Kohnstamm & Co., H., 87 Park Place

Pa., Philadelphia

Lucas & Co., John, 322 Race St.

Colors, Metallic*N. Y., New York City*

Riebe & Co., Edgar C., 276 Water St.

Wash., Tacoma

Mashell Paint Co.

Colors, Mineral*N. Y., New York City*

*Hemingway & Co., Ltd., 1 Broadway

*Smith & Co., J. Lee, 23 Jacob St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Pa., Philadelphia

Foote Mineral Co., 107 N. 19th St.

Colors, Mortar*Pa., Philadelphia*

French & Co., Samuel H., 410 Callowhill St.

Colors, Ochre*Ga., Cartersville*

Cherokee Ochre Co.

Ill., Chicago

*Daigger & Co., A., 51 W. Kinzie St.

Pa., White Haven

Luzerne Ochre Mfg. Co.

Colors, Oil*Cal., San Francisco*

Fuller & Co., W. P.

England, Lancashire

Shove, Ltd., J. B. & W. R.

Ind., South Bend

O'Brien Varnish Co., Washington and Johnson Sts.

Mich., Detroit

Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.

Detroit White Lead Works, 560 Milwaukee Ave.

N. J., Newark

Central Dyestuff & Chemical Co., Plum Pt. Lane

Murphy Varnish Co.

N. Y., Brooklyn

Masury & Sons, J. W., 50 Jay St.

N. Y., New York City

Amerian Aniline Products, Inc., 80 Fifth Ave.

Apex Color Works, 50 W. Broadway

Devoe, F. W. & C. T. Reynolds Co., Fulton and William Sts.

Ohio, Cleveland

Sherwin-Williams Co., 601 Canal Road, N. W.

Ohio, Dayton

Lowe Bros. Co.

Pa., Philadelphia

Lucas & Co., John, 322 Race St.

Colors, Paint (*see also Colors, Venetian Red*)*Mich., Detroit*

Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.

Detroit White Lead Works, 560 Milwaukee Ave.

Masury, J. W., & Son, 50 Jay St.

Mo., St. Louis

Certain-teed Products Corporation, 314 N. Broadway

N. Y., New York City

Heller & Merz Co., 505 Hudson St.

Kohnstamm, H., & Co., 87 Park Pl.

Marden, Orth & Hastings Corp'n, 61 Broadway

*Smith & Co., J. Lee, 23 Jacob St.

Ohio, Cleveland

Sherwin-Williams Co.

Colors, Papermakers*N. J., Newark*

Central Dyestuff & Chemical Co., Plum Pt. Lane

N. Y., New York City

*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Metz & Co., H. A., 122 Hudson St.

*Smith & Co., J. Lee, 23 Jacob St.

Pa., Philadelphia

French & Co., Samuel H., 4th and Calowhill Sts.

Lucas & Co., Jno., 322 Race St.

Colors, Perfume*N. Y., New York City*

Lieber & Co., Inc., H., 14 Platt St.

Colors, Porcelain*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

Colors, Pulp*Md., Baltimore*

Bloede Co., Victor G., Caton Ave., Station "D"

N. Y., Glens Falls

Imperial Color Works, Inc., Warren St.

N. Y., New York City

National Gum & Mica Co., 59th St. and 11th Ave.

Pa., Philadelphia

Pecora Paint Co., 4th & Lawrence Sts.

Colors, Rubbermakers*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Kohnstamm & Co., H., 87 Park Place

Marden, Orth & Hastings Corp'n, 61 Broadway

Martin Co., L., 81 Fulton St.

*Smith & Co., J. Lee, 23 Jacob St.

Pa., Philadelphia

Westmoreland Chemical & Color Co., 925 Chestnut St.

Colors, Soap*N. Y., New York City*

Lieber & Co., Inc., H., 14 Platt St.

Colors, Spirit Soluble*N. J., Newark*

Central Dyestuff & Chemical Co., Plum Pt. Lane.

Colors, Sugar*N. Y., New York City*

Williamson & Co., Inc., D. D., 86 Fulton St.

Colors, Sugar, Burnt*Ohio, Cleveland*

Forest City Paint & Varnish Co., 3334 Lakeside Ave.

Ill., Chicago

Barrett & Co., M. L., 233 W. Lake Ave.

Sethness Co., 718 N. Curtis St.

N. Y., New York City

Bush & Co., Inc., W. J., 100 William St.

McKesson & Robbins, Inc.

Williamson & Co., Inc., D. D., 86 Fulton St.

Ohio, Cincinnati

Alexander Molasses Co., 3271 Spring Grove Ave.

Fries & Fries, 1501-13 W. 6th St.

Colors, Sulphur*Mass., Boston*

Atteaux & Co., F. E., 176 Purchase St.

N. Y., New York City

Berlin Aniline Works, 213 Water St.

*Century Colors Corp., 182 Front St.

*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Marden, Orth & Hastings Corp'n, 61 Broadway

*Sloan & Russell, Inc., 132 Nassau St.

Wright Chemical Corporation, 38 Park Row

N. Y., Wappingers Falls

Standard Aniline Products Co., Inc.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blythswood Square

Colors, Sulphur, Levuline for*N. J., Passaic*

*Wolf, Jacques, & Co.

Colors, Surface Coating

N. Y., Glen Falls
Imperial Colors Works, Inc.

Colors, Thion

N. Y., New York City
Kalle Color & Chemical Co., 830
Canal St.

Colors, Tin

N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.

Colors, Ultramarine (*see Ultramarine*)**Colors, Varnish**

Ill., Chicago
Chicago Varnish Co., 2100 Elston Ave.
N. Y., Long Island City
Smith & Co., Edw.
N. Y., New York City
Berry Bros., 262 Pearl St.
Marden, Orth & Hastings Corp'n, 61
Broadway

Colors, Vegetable

N. Y., New York City
Dodge & Olcott Co., 87 Fulton St.
Marden, Orth & Hastings Corp'n, 61
Broadway

Colors, Venetian Red

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61
Broadway
Smith Co., J. Lee, 19 Jacob St.
Pa., Reading
Wilhelm Co., The, A.

Colors, Vinegar

Ill., Chicago
Barrett & Co., M. L.
N. Y., New York City
Williamson & Co., Inc., D. D., 86
Fulton St.

Colors, Wall Paper, Pulp

N. Y., Glen Falls
Imperial Color Works, Inc.

Colors, Water

N. Y., New York City
Chaskel Chemical Works, 265 W.
Broadway
Marden, Orth & Hastings Corp'n, 61
Broadway
Pa., Philadelphia
Twitchell, S., Co., 225 Vine St.

Colors, Wood Stains

N. J., Newark
Central Dyestuff & Chemical Co.,
Plum Pt. Lane.

Compounds, Cable

Mo., St. Louis
Dielectric Mfg. Co.

Compounds, Finishing

Mass., Atlantic
Bosson & Lane

Compounds, Impregnating

Mo., St. Louis
Dielectric Mfg. Co.

Compounds, Moulding

Mo., St. Louis
Dielectric Mfg. Co.

Compounds, Scrooping

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington
Ave.

Compounds, Sizing

Mass., Atlantic
Bosson & Lane

Compounds, Waterproofing

Ohio, Cincinnati
Fries & Fries, 1501 13 W. 6th St.
N. Y., New York City
Toch Bros., 320 Fifth Ave.

**Compounds, Waterproofing
Cement**

N. Y., New York City
Toch Bros., 320 Fifth Ave.

Condensite-Celluron

Pa., Bridgeport
Diamond State Fibre Co.

Copper

Cal., San Francisco
Selby Smelting & Lead Co.
Colo., Colorado Springs
United States Reduction & Refining
Co.
Conn., Bridgeport
Bridgeport Brass Co.
Conn., Waterbury
American Brass Co., The
Mass., Boston
U. S. Smelting, Refining & Mining Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills,
99 Clark Ave.
Mont., Anaconda
Anaconda Copper Mining Co.

Copper—cont.*N. J., Chrome*

U. S. Metals Refining Co.

N. J., Perth Amboy

Raritan Copper Works

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

American Smelting & Refining Co.,
120 BroadwayHungerford Brass & Copper Co., U.
T., 80 Lafayette St.Nassau Smelting & Refining Works,
605 W. 29th St.

U. S. Metals Refining Co.

U. S. Smelting Co., Inc., 120 Broad-
way*Wash., Tacoma*

Tacoma Smelting Co.

Copper Acetate*Mo., St. Louis*

Mallinckrodt Chemical Works

N. Y., New York City

Cooper, Chas., & Co., 194 Worth St.

Merck & Co., 45 Park Pl.

Roessler & Hasslacher Chemical Co.,
100 William St.

White Tar Co., 6 Cliff St.

*Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

R. I., Providence

*Lewis, John D.

Copper Amalgam*Del., Milford*

Caulk Co., The L. D.

Copper, Benedict*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Copper Carbonate***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Merrimac Chemical Co., 33 Broad St.

N. J., Matawan

Munning Loeb Co.

*N. J., Newark*Hanson & Van Winkle Co., 269 Oliver
St.*N. Y., Brooklyn*Wiarda & Co., John Co., 273 Green
St.*N. Y., New York City*

Cooper, Chas. & Co., 194 Worth St.

General Chemical Co., 25 Broad St.

Innis, Speiden & Co., Inc., 46 Cliff St.
McKesson & Robbins, Inc., 91 Fulton
St.

Merck & Co., 45 Park Pl.

*Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.*Ohio, Cleveland*Harshaw, Fuller & Goodwin Co., 317
Electric Bldg.*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Copper Chloride***England, Wolverhampton*

Bailey & Son, William

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

*Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.**Copper Cyanide***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Cooper Chas., & Co., 194 Worth St.

*Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.**Copper Linoleate***Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Copper Nitrate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

Seldner & Enequist, Hausman St.

N. Y., New York City

Cooper, Chas., & Co., 194 Worth St.

General Chemical Co., 25 Broad St.

*Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.**Copper Oleate***Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.**Copper Oxide***England, Wolverhampton*

Bailey & Son, William

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

*N. Y., Brooklyn*Wiarda, H. John C., & Co., 273 Green
St.

Copper Oxide—*coni.**N. Y., New York City*Innis, Speiden & Co., Inc., 46 Cliff St.
*Pfaltz & Bauer, Inc., 300 Pearl St.*Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.*Ohio, Cleveland*Harshaw, Fuller & Goodwin Co., 317
Electric Bldg.*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

Copper Palmitate*Ohio Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.**Copper Resinate***Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Copper Scale*N. Y., Brooklyn*

Wiarda & Co., John C., 273 Green St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Copper Stearate*Ohio, Cincinnati*Buchanan Products Co., C. G., 118
E. Pearl St.**Copper Suboxide***England, London, E. C. 3*Berk & Co., Ltd., F. W., 1 Fenchurch
Ave.*England, Wolverhampton*

Bailey & Sons, William

Copper Sulphate*Cal., San Francisco*Selby Smelting & Lead Co
Stauffer Chemical Co*England, Liverpool*

Haddock, Parker & Co., 14 Chapel St.

*Ill., Chicago*Central Chemical Co., 111 W. Wash-
ington St.

*Daigger & Co., A., 52-56 W. Kinzie St.

*Md., Baltimore*Thomsen Chemical Co., Race and Win-
der Sts.*Mass., Boston**King & Co., Inc., E. & F., 367 Atlan-
tic Ave.*Mo., St. Louis*Mallinckrodt Chemical Works, 3600
N. 2d St.*N. J., Matawan*

Munning Loeb Co.

N. J., Perth Amboy

Raritan Copper Works

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

*N. Y., New York City**Alexander & Co., Inc., C. S., 61
BroadwayAmerican Metal Co., Ltd., 61 Broad-
wayAmerican Smelting & Refining Co.,
120 BroadwayBeer, Sondheimer & Co., Inc., 42
Broadway*Chemical Importing & Mfg. Co., 90
West St.

Edgertyn Aniline Corp., 118 William St.

*Eimer & Amend, 205-211 Third Ave.

General Chemical Co., 25 Broad St.

*Independent Chemical Co., 122 West
St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Katzenbach & Bullock Co., Inc., Wil-
ham and John Sts.Klipstein & Co., A., 644 Greenwich
St.

Merck & Co., 45 Park Pl.

Nichols Copper Co., 25 Broad St.

*Nitrate Agencies Co., 102 Pearl St.

*Peters, White & Co., 55 John St.

Roessler & Hasslacher Chemical Co.,
100 William St.*Pa., Philadelphia*

*Ferguson Bros.

*Ohio, Cincinnati*Buchanan Products Co., 118 E. Pearl
St.*Ohio, Cleveland*

Grasselli Chemical Co., Arcade Bldg.

*R. I., Providence**Lewis, John D., 1209 Turks Head
Bldg.**Copper Sulphate, Extra, Tech.***N. Y., New York City*

Cooper & Co., Chas., 194 Worth St.

Copper Sulphocyanate*England, London, E. C. 3*Berk & Co., Ltd., F. W., 1 Fenchurch
Ave.**Copperas (see Ferrous Sulphate)****Coralline***Pa., Philadelphia*

Harmer Laboratories Co.

Corrosive Sublimate (see Mercuric Chloride)

Corundum*Mass., Cambridge*

Exlon Co., The, 156 Sixth St.

Spear's Alden Sons Co.

N. Y., New York City

Metal & Thermit Corporation, 120 Broadway

Cotton, Soluble*Del., Wilmington*

Du Pont Chemical Works

Herules Powder Co.

N. J., Wallington

Anderson Chemical Co.

N. Y., New York City

Celluloid Zapon Co., 200 Fifth Ave.

Cooper, Chas., & Co., 194 Worth St.

Cotton Solutions (see Nitrocellulose)**Coumarin***Mo., St. Louis*

Monsanto Chemical Works, 2nd St. and Lafayette Ave.

N. Y., Brooklyn

Zobel Color Works, Inc., 95-127 Ninth St.

*N. Y., New York City**Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William St.Hoffman, LaRoche Chemical Works
Merck & Co., 45 Park Pl.

National Gum & Mica Co., 59th St. and 11th Ave

Ohio, Sandusky

Hord Color Products Co., S. Columbus Ave.

Crayons, Chalk*N. Y., New York City*

Binney & Smith Co., 81 Fulton St.

Ohio, Sandusky

American Crayon Co.

Crayons, Checking*N. J., Newark*

Faber, A. W., 41 Dickerson St.

Crayons, Colored*N. J., Jersey City*

Dixon Crucible Co., Joseph

N. J., Newark

Faber, A. W., 41 Dickerson St.

N. J., Paterson

Fine Colors Co., 21-29 McBride Ave.

N. Y., Brooklyn

Faber, Eberhard, 137 Greenpoint Ave.

N. Y., New York City

American Lead Pencil Co., 220 5th Ave.

*Binney & Smith Co., 81 Fulton St.**Eagle Pencil Co., 377 Broadway**Ohio, Sandusky*

American Crayon Co.

Crayons, Soapstone*N. Y., New York City*

Talc Products Co., 11 Pine St.

Cream of Tartar (see Potassium Acid Tartrate)**Creosote***Del., Wilmington*

Du Pont de Nemours Co., E. I.

Fla., Jacksonville

Florida Wool Products Co.

Ga., Savannah

Antwerp Naval Stores Co.

National Rosin Oil & Size Co.

Ill., Chicago

Lewis Mfg. Co., F. J.

La., New Orleans

American Turpentine & Tar Co.

Mass., Boston

Cabot, Inc., Samuel, 141 Milk St.

N. J., Elizabeth

Bayway Chemical Co.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Barrett Co., 17 Battery Pl.

*Fougere & Co., E., 80 Beekman St.

Georgia Pine Turpentine Co.

Merck & Co., 45 Park Pl

Pa., Mayburg

Tionesta Valley Chemical Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Wis., Milwaukee

Newport Chemical Works, Inc.

Creosote, Carbonate*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Creosote, Carbonate, U.S.P.*Fla., Jacksonville*

Florida Wood Products Co.

Creosote, Coal Tar*Ga., Savannah*

Antwerp Naval Stores Co.

National Rosin Oil & Size Co.

Standard Naval Stores Co.

Ill., Chicago

Lewis, F. J., Mfg. Co.

Creosote, Dark*Del., Wilmington*

Du Pont de Nemours Co., E. I.

Creosote Oil (*see Oils, Creosote*)**Creosotes, Soluble***England, Darlington*

Parkin, Ness & Co., Quebec St.

Del., Wilmington

Du Pont de Nemours Co., E. I.

Cresol (*see Acid, Cresylic*)**Cresoli, Liquor***England, Darlington*

Parkin, Ness & Co., Quebec St.

Cresol, Meta*N. J., Elizabeth*

Bayway Chemical Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Merck & Co., 45 Park Pl.

Wis., Milwaukee

Newport Chemical Works, Inc.

Cresol, Ortho*N. Y., New York City*

Barrett Co., 17 Battery Place

Merck & Co., 45 Park Pl.

National Gum & Mica Co., 59th St.
and 11th Ave.*Wis., Milwaukee*

Newport Chemical Works, Inc.

Cresol, Para*N. J., Elizabeth*

Bayway Chemical Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Wis., Milwaukee

Newport Chemical Works, Inc.

Cresols (*special bacteriological*)*Ind., Indianapolis*

Eli Lilly & Co., 224 E. McCarthy St.

Pa., Philadelphia

Mulford Co., H. K.

Cresols, Crude*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Crudes, Coal Tar Derivatives*Ala., Birmingham*

Tennessee Coal, Iron & R. R. Co.

*Colo., Denver*American Coal Reduction & By-Prod-
ucts Mfg. Co.*Conn., New Haven*

New Haven Gas Light Co., 80 Crown St.

Del., Wilmington

DuPont de Nemours & Co., E. I.

*Ill., Chicago*American Tar Products Co., 208 S.
LaSalle St.

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Cabot, Inc., Samuel, 141 Milk St.

Mass., Holbrook

Baird & McGuire, Inc.

Mi. h., Midland

Dow Chemical Co., The

*Mo., St. Louis*Laclede Chemical Co., 616 Washing-
ton St.

Monsanto Chemical Co., 1800 S. 2d St.

*Neb., Omaha*Nebraske Blaugas Co., 28th and Boyd
Sts.*N. J., Elizabeth*

Bayway Chemical Co., Bayway

N. J., Orange

Edison, Inc., Thomas A.

N. Y., Kingston

Nitrated Chemical Co.

N. Y., New York City

Barrett Co., The, 17 Battery Pl.

Merck & Co., 45 Park Pl.

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Amherst

Briggs Chemical Works

Ohio, Cincinnati

Chatfield Mfg. Co.

Ohio, Cleveland

Grasselli Powder Co.

Ohio, Lockland

Carey Mfg. Co., Philip

*Ohio, Toledo*Atlas Chemical Co. (Capital \$1,000,-
000)*Pa., Johnstown*Union Chemical & Refining Co., Box
974*Pa., Philadelphia*

Cambria Steel Co., Widener Bldg.

United Gas Improvement Co.

Pa., Pittsburgh

Carnegie Steel Co.

Pittsburgh By-Products Coke Co.

Wash., Spokane

Betts Co., C. G., Erie and B. P. Tracks

*Wis., Milwaukee*Newport Hydro-Carbon Co., 1112
First National Bank Bldg.**Cryolite***Ill., Chicago*

National Alum Co.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

Cooper & Co., Chas., 194 Worth St.

*Pa., Philadelphia*Pennsylvania Salt Mfg. Co., 115
Chestnut St.**Crystolon***Ill., Chicago*Rhodes & Co., James H., 157 W. Austin
Ave.

Crystals, Snow Flake*N. Y., Syracuse*

Solvay Process Co. •

Pa., Pittsburgh

*Mortlandt Chemical Co., 602 Fitzsimons Bldg.

Culture, Bulgarian Milk*N. Y., Little Falls*

Hansen's Laboratory, Inc., Chr.

Culture, Lactic Ferment*N. Y., Little Falls*

Hansen's Laboratory, Inc., Chr.

Culture Media*Mich., Detroit*

Digestive Ferments Co.

Cumaron*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., New York City

Barrett Co., 17 Battery Place

Cup Ferron*Pa., Philadelphia*

Harmer Laboratories Co.

Cupric Oxide, Red and Black*N. J., Jersey City*

Import Chemical Co., 162 First St.

Cuprous Chloride*Ohio, Sandusky*

Hord Color Products Co., S. Columbus Ave.

Cuprous Oxide, Red and Black*N. J., Jersey City*

Import Chemical Co., 162 First St.

Curdalac*N. Y., New York City*

*Gowing & Co., Inc., D. H., 47 W. 34th St.

Cutch (*see Extracts, Cutch*)**Cutch, Sulphur***N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Cyanamid*N. Y., New York City*

American Cyanamid Co., 511 5th Ave.

Cyanide (*see Potassium Cyanide and Sodium Cyanide*)**Cyanide Chloride***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Huisling, Inc., Chas. L., 5 Platt St.

*Klipstein & Co., A., 644 Greenwich St.

Ohio, Cleveland

Grasselli Chemical Co.

Cyanide Mixture*N. Y., New York City*

*Baker & Bro., H. J., 81 Fulton St.

Cyanide of Potash (*see Potassium Cyanide*)**Cymene** (*see Essential Oil*)**Decolorizing Materials***N. Y., New York City*

Drakenfeld & Co., Inc., 50 Murray St.

Pa., Pittsburgh

Vitro Mfg. Co., Bessemer Bldg.

Degras*England, London*

*Dexters, Ltd., 362 City Road

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

*Fuerst Bros. & Co., 2 Stone St.

Fuller & Co., Ralph L., 4 Rector St.

Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Southern Oil & Chemical Co., 15 Park Row

N. Y., Niagara Falls

Acheson Graphite Co.

Deodorizing Materials (*see Bleach, Bleaching Powder and Chloride of Lime*)**Dertergine***Mass., Atlantic*

*Bosson & Lane

Dextrine*Conn., New Haven*

Hubinger Bros. Co., J. C.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Iowa, Cedar Rapids

Douglas Co.

Md., Baltimore

Bloede, Victor G., Co., Caton Ave., Station "D"

Mass., Boston

United Indigo & Chemical Co., 176 Federal St.

Dextrine—*cont.**N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Arabol Mfg. Co., 100 William St.

Cooper & Co., Chas., 194 Worth St.

Corn Products Refining Co., 17 Bat-
tery PlaceEdgertyn Aniline Corp., 118 William
St.

Innis, Speiden & Co., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich
St.National Aniline & Chemical Co., Inc.,
21 Burling SlipNational Gum & Mica Co., 59th St. and
11th Ave.

*Wood, Inc., J. Early, 21 Platt St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Dextrose*Mich., Detroit*

Digestive Ferments Co.

N. Y., New York City

Merck & Co., 45 Park Pl.

Diacetyl-Morphine-Hydrochloride*N. Y., New York City*Heyden Chemical Works, 135 William
St.New York Quinine & Chemical Works,
Inc.**Diacetyl-Morphine, Pure***N. Y., New York City*Heyden Chemical Works, 135 William
St.New York Quinine & Chemical Works,
Inc.**Diamalt***Ohio, Cincinnati*

American Diamalt Co., 419 Plum St.

Diamidobenzene*N. Y., New York City*Middlesex Aniline Co., Inc., 149
Broadway**Diamidophenol***N. J., Perth Amboy*General Supply Co., Market St. &
Bertrand Ave.*N. Y., New York City*Klipstein & Soas Co., E. C., 644
Greenwich St.**Dianisidine***N. Y., New York City*

Chemical Co. of America, 28 Platt St.

*Wis., Milwaukee*Newport Chemical Works, Inc., 1112
First National Bank Bldg.**Diastafor***Ohio, Cincinnati*

American Diamalt Co., 419 Plum St.

Diastase*Ill., Chicago*

Armour & Co., Union Stock Yards

Mich., Detroit

Digestive Ferments Co., 240 Henry St.

N. Y., New York City

Malt-Diastase Co., 79 Wall St.

Merck & Co., 45 Park Place

Diastase, Tala*Mich., Detroit*

Parke, Davis & Co.

Diastoid*Wis., Racine*

Horlick's Malted Milk Co.

Diastosol*Ohio, Cincinnati*

American Diamalt Co., 419 Plum St.

Diax*N. Y., New York City*

Malt-Diastase Co., 79 Wall St.

Dibrom Indigo*Mich., Midland*

Dow Chemical Co.

Dichloramine-T*Mo., St. Louis*Monsanto Chemical Works, 2nd St.
& Lafayette Ave.**Dichlorobenzene***Del., Wilmington*

Du Pont Chemical Works

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Midland

Dow Chemical Co.

N. Y., New York City

Electro Bleaching Gas Co., 18 E 41st.

Hooker Electrochemical Co., 40 Wall
St.Marden, Orth & Hastings Co., Inc.,
61 BroadwayNational Aniline & Chemical Co.,
Inc., 21 Burling Slip*N. Y., Niagara Falls*

Niagara Alkali Co.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

W. Va., Charleston

Rollin Chemical Co., Inc.

Dichlorbenzene, Ortho (*see*
Dichlorbenzene)

Dichlorbenzene, Para (*see* *Dichlorbenzene*)

Dichlormethane

Mich., Midland
Dow Chemical Co.

Dicyandiamid

N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.

Didymium Nitrate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave

Diethylaniline

Mich., Midland
Dow Chemical Co
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 176 Front St.
Edgertyn Aniline Corp., 118 William St.
Rector Chemical Co., 2 Rector St.

Digestive Ferments

Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Parke, Davis & Co.

Digitalin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
Ind., Indianapolis
Eli Lilly & Co., 221 E. McCarthy St.

Dimethylamidazobenzene

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Dimethylamidobenzaldehyde, Para

Pa., Philadelphia
Harmer Laboratories Co

Dimethylamidobenzaldehyde

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Dimethylaminoazobenzene

Pa., Philadelphia
Harmer Laboratories Co.

Dimethylaniline

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.
Mich., Detroit

Detroit Organic Chemicals Co.

N. J., Bound Brook
Calco Chemical Co.

N. Y., New York City

Chemical Co. of America, 28 Platt St.

*Hemingway, Inc., Frank, 115 Broadway

Marden, Orth & Hastings Co., 61 Broadway

National Aniline & Chemical Co., Inc., 21 Burling Slip

Pa., Lock Haven

Stanley Aniline Chemical Works, Inc.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Dimethylglyoxime

N. Y., New York City
Holz, Herman A., 50 Church St.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Dimethylphenylenediamine

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St

Dinitroamidophenol

Pa., Philadelphia
Harmer Laboratories Co.

Dinitrobenzene

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Ill., Quincy

Monroe Color & Chemical Co.

Mass., Boston

Atlantic Dyestuffs Co., 88 Ames Bldg.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Chemical Co. of America, 28 Platt St.

*Hemingway, Inc., Frank, 115 Broadway

Middlesex Aniline Co., Inc., 149 Broadway

National Aniline & Chemical Co., Inc., 21 Burling Slip

*Williamson & Co., 120 Broadway

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.
Sherwin-Williams Co.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Dinitrochlorbenzene*Conn., Stamford*

American Synthetic Color Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Mass., Boston

Atlantic Dyestuff Co., 88 Ames Bldg.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Chemical Co. of America, 28 Platt St.

*Williamson & Co., 120 Broadway

Wright Chemical Corporation, 38 Park Row

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Tenn., Kingsport

Union Dye & Chemical Corporation

Dinitronaphthalene 1:8*Pa., Philadelphia*

Harmer Laboratories Co.

Dinitronaphthalene*N. Y., Kingston*

Nitrated Chemicals Co.

R. I., Providence

Agawan Chemical Works

Wis., Milwaukee

Newport Chemical Works, Inc., 1112

First National Bank Bldg.

Dinitrophenol*Conn., Stamford*

American Synthetic Color Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Hercules Powder Co.

Mass., Boston

Atlantic Dyestuff Co., 88 Ames Bldg.

Mich., Midland

Dow Chemical Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Chemical Co. of America, 28 Platt St.

Klipstein & Sons Co., E. C., 644 Greenwich St.

Marden, Orth & Hastings Co., 61 Broadway

National Aniline & Chemical Co., 21 Burling Slip

*Williamson & Co., 120 Broadway

Wright Chemical Corp., 38 Park Row

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Tenn., Kingsport

Union Dye & Chemical Corporation

Dinitrotoluene*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Hercules Powder Co.

Hercules Powder Co., 10th and Market Sts.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington St.

Chemical Co. of America, 28 Platt St.

*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

*Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Transatlantic Chemical Corporation, 192 Broadway

*Williamson & Co., 120 Broadway

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Diphenylamine*Del., Wilmington*

Du Pont Chemical Works.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Diphenylaniline*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

N. Y., Wappingers Falls

Standard Aniline Products, Inc.

Diphenyloxide*N. J., Bayonne*

Standard Chemical Co., W. 5th St.

Dips, Mantle*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Direct Blue 2-B*Mass., Boston*

Atlantic Dyestuff Co., 88 Ames Bldg.

Direct Blue 3-B*Mass., Boston*

Atlantic Dyestuff Co., 88 Ames Bldg.

Direct Green J*Mass., Boston*

Atlantic Dyestuff Co., 88 Ames Bldg.

Disinfectants (see *Calcium Hypochlorite, Chloride of Lime*)

Disinfectants, Coal Tar, all kinds

Mo., St. Louis
 Cremoline Disinfecting Co., 17 S. Main St.
N. Y., New York City
 National Aniline & Chemical Co., Inc., 21 Burling Slip

Disinfectants, Pine Oil

N. Y., New York City
 Georgia Pine Turpentine Co., of New York, 160 Perry St.

Dopes, Aeroplane

Del., Wilmington
 Hercules Powder Co., 10th and Market Sts.

Dope, Split Leather

Del., Wilmington
 Du Pont de Nemours & Co., E. I.

Dopes, Leather

Del., Wilmington
 Hercules Powder Co., 10th and Market Sts.

Dopes, Leather Cloth

Del., Wilmington
 Hercules Powder Co., 10th and Market Sts.

Dopes, Patent Leather

Del., Wilmington
 Hercules Powder Co., 10th and Market Sts.

Dopes, Split Leather

Del., Wilmington
 Hercules Powder Co., 10th and Market Sts.

Dryers

N. J., Newark
 Jaenecke-Ault Co., Ave. B. & Wright St.

Dyestuff, Azo

Tenn., Kingsport
 Union Dye & Chemical Corporation

Dyestuff, Direct

Tenn., Kingsport
 Union Dye & Chemical Corporation

Dyestuff, Sulphur

Tenn., Kingsport
 Union Dye & Chemical Corporation

Dyestuffs, Coal Tar (see also Specific Headings, Colors)

Cal., San Francisco
 Dill-Crossett, Inc., Postal Telegraph Bldg.
 *McMains & Co., A. H., 24 California St.
Cal., Vernon
 Internal Dye Products Co.
Cal., West Berkeley
 California Aniline & Chemical Co.
 Catalytic Chemical Co., 3d and Bancroft Sts.
Conn., Danielson
 Connecticut Color Co.
Conn., Stamford
 American Synthetic Color Co.
 Stamford Extract Mfg. Co.
Del., Wilmington
 DuPont de Nemours & Co., E. I.
Fla., Jacksonville
 Jacksonville Chemical Mfg. Co.
Ill., Chicago
 Holland Aniline Co., 118 W. Kinzie St.
 Sherwin-Williams Co., Pullman Station
 Street & Co., R. R., 541 W. Washington St.
Ill., Quincy
 Monroe Color & Chemical Co., N. Front St.
Md., Baltimore
 Bloede Co., Victor G., Caton Ave.
Mass., Boston
 Alliance Chemical Co., 176 Federal St.
 Atlantic Dyestuff Co., 88 Ames Bldg.
 *Atteaux & Co., 176 Purchase St.
 Avery Chemical Co., 88 Broad St.
 Essex Aniline Works, Inc., 39 Oliver St.
 Levinstein & Co., L., 74 India St.
 Merrimac Chemical Co., 33 Broad St.
 *Rosentwist & Gorner, 26 India Square
 *Thayer & Co., E. M., 411 Atlantic Ave.
 United States Color & Chemical Co., 93 Broad St.
 United Indigo & Chemical Co., 176 Federal St.
Mass., Melrose
 Melrose Chemical Co., Essex St.
Mass., South Boston
 Hub Dyestuff & Chemical Co., 595 E. 7th St.
Mass., South Seekonk
 Arnold & Marshall Chemical Co.
Mich., Detroit
 International Color & Chemical Co., 570 Franklin St.
Mich., Holland
 Holland Aniline Co.
Mich., Lansing
 Lansing Chemical Co.

Dyestuffs, Coal Tar—cont.

- Mich., Midland*
Dow Chemical Co.
- Mich., Wyandotte*
*Ford Co., J. B.
- Mo., Independence*
Independence Aniline & Refining Co.
- Mo., St. Louis*
Continental Chemical Co., 418 N. 3d St.
H. M. T. Chemical Co., Merchants-Laclede Bldg.
Nevins Chemical Works
- N. J., Bound Brook*
Calco Chemical Co.
Peerless Color Co.
- N. J., Haledon*
Mackey Wood Aniline Co., Inc.
- N. J., Jersey City*
Seydel Mfg. Co., 86 Forrest St.
- N. J., Matawan*
Chrome Color Works
- N. J., Meluchen*
Acme Dyestuff & Chemical Co., Durham Ave.
- N. J., Newark*
Central Dyestuff & Chemical Co.
Haack & Co., 800 Broad St.
Keystone Dyestuff & Chemical Co., 671 Broad St.
- N. J., Pennington*
Westover Chemical Co.
- N. J., Passaic*
American Color Mfg. Co.
Wolf & Co., Jacques
- N. J., Perth Amboy*
National Synthetic Co.
- N. Y., Brooklyn*
Atlas Color Works, Inc., 417 Hamilton Ave.
Commonwealth Color & Chemical Co., Butler St.
Hoffman & Kropff Chemical Co., Meeker and Porter Sts.
Iridescent Dyestuff & Chemical Co., 247 Bush St.
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
- N. Y., Buffalo*
Contact Process Co.
- N. Y., Cooks Falls*
Beaverkill Dye Works
- N. Y., Glens Falls*
Imperial Color Works, Inc.
- N. Y., Hastings*
Zinsser & Co.
- N. Y., Long Island City*
Oakes Mfg. Co.
- N. Y., Monticello*
Mont Color & Chemical Co.
- N. Y., New York City*
*Ackerman Co., H. R., 65 Fulton St.
*Allied Chemical Exchange, Inc., 95-97 Liberty St.
Amalgamated Dyestuff & Chemical Works, Inc., 75 Hudson St.
American Aniline Products, Inc., 80 Fifth Ave.
American Color Mfg. Co., 98 Park Place
American Dyewood Co., 80 Maiden Lane
American Synthetic Dyes Co., Inc., 61 Broad St.
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Barrett Co., The, 17 Battery Place
Bayer Co., 117 Hudson St.
Beer, Sondheimer & Co., Inc., 61 Broadway
Berlin Aniline Works, 213 Water St.
*Binney & Smith Co., 81 Fulton St.
*Bischoff & Co., C., 451 Washington St.
Bloch Chemical Co., 67 Fifth Ave
Brandes Chemical Co., The, 8th Ave.
Brassard & Co., Inc.
Bredt & Co., F., 240 Water St.
Butler Chemical Co., 25 Beaver St.
Butterworth-Judson Corp., 31 Broadway
Calco Chemical Co., Woolworth Bldg.
*Campbell, C. W., 11 Cliff St.
Campbell & Co., John, 75 Hudson St.
Camden Chemical Co., 42 Broadway
Cassella Color Co., 182 Front St.
Chemical Co. of America, Inc., 28 Platt St.
Chemical Mfg. Co., 48 Gold St.
*Century Colors Corp., 182 Front St.
Consolidated Color & Chemical Co., 122 Hudson St.
Cosmic Aniline Works, 8 W. Broadway
Delbrook Co., 135 William St.
Dicks, David & Co., Inc., 299 Broadway
*Doherr, Grimm & Co., 87 Gold St.
*Drug & Dyestuff Corp., 120 Broadway
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Eagle Color & Chemical Co., 4 Cedar St.
Edgertyn Aniline Corp., 118 William St.
Federal Dyestuff & Chemical Co., 2 Rector St.
Franco American Chemical Works, 8 Gold St.
Franco Swiss Dyes, Inc., 81 Broadway
*Fuerst Bros. & Co., 2 Stone St.
Fuller & Co., Ralph L., 4 Rector St.
General Chemical Co., 25 Broad St.
Gold Leaf Natural Dyes Co., 150 Nassau St.

Dyestuffs, Coal Tar—cont.*N. Y., New York City—cont.*

*Greiff & Co., R. W., Inc., 80 Maiden Lane

Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Heller & Merz Co., 505 Hudson St.

*Hemingway, Inc. Frank L., 82 Beaver St.

Herman & Herman, Inc., 6 Church St.

Holliday-Kemp Co., Inc., 90 William St.

Holliday, Read & Sons (Ltd.), 160 Franklin St.

Independent Chemical Co., 72 Front St.

*Innis, Speiden & Co., Inc., 46 Cliff St.

*Jaack Co., Louis, 257 Front St.

Jamaica Dyewood & Chemical Co., 50 Church St.

*Ketchum & Co., 65 Fulton St.

*Kley, Inc., 39 Courtland St.

Klipstein & Co., A., 644 Greenwich St.

*Klipstein & Co., E. C., 644 Greenwich St.

*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

*Lascelles & Co., A. S., 10 Bridge St.

*Lengfelt & Co., F. H., 100 Maiden Lane

L. & R. Organic Products Co., Inc., 27 Thames St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Marks Dye Mfg. Co., Inc., Eli, 484 Broadway

Merck & Co., 45 Park Place

Metz & Co., H. A., 122 Hudson St.

Middlesex Aniline Co., Inc., 119 Broadway

Mont Color & Chemical Co., 90 Wall St.

National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

New York Color & Chemical Co., 212 Pearl St.

*New York Quebracho Co., 80 Maiden Lane

Perolin Co. of America, Woolworth Bldg.

Reliance Aniline & Chemical Co., 100 Broadway

Roessler & Hasslacher Chemical Co., 100 William St.

Saxe Chemical Co., 99 Nassau St.

*Schell Chemical Co., Inc., 56 Pine St.

Segal & Co., Inc., George H., 95 William St.

*Simeon & Elting, 93 Nassau St.

Southern Oil & Chemical Co., 15 Park Row

Stanford Mfg. Co., 82 Wall St.

Standard Aniline Co., 366 5th Ave.

Standard Color Works, 55 Liberty St.

Transatlantic Chemical Corp., 80 Wall St.

West Indies Chemical Works, 80 Maiden Lane

Wetterwald & Pfister Co., 34 W. 33rd St.

White Tar Co., 6 Cliff St.

Wright Chemical Corporation, 38 Park Row

Zobel Co., Inc., Ernst, 38 Water St.

N. Y., Schenectady
Organic Products Corporation*N. Y., Solvay*
Solvay Process Co.*N. Y., Wappingers Falls*
Standard Aniline Products Co., Inc.*N. Y., North Tonawanda*
Synthetic Products Co., Inc., 447 Oliver St.*N. Y., Schenectady*
Organic Products Corp.*Ohio, Amherst*
Briggs Chemical Works Co.*Ohio, Cincinnati*
Ault & Wiborg Co.

Eddy Chemical Co., 1014 Eliza St.

Gates Aniline Products Co.

Ohio, Cleveland
Grasselli Chemical Co.

Sherwin-Williams Co.

Ohio, Marietta
Obex Co., The*Ohio, Sandusky*
Hord Color Products Co., 424 E. Market St.*Pa., Easton*
Baker & Adamson Chemical Co.*Pa., Fort Washington*
Columbia Chemical Constructive Co.*Pa., Lockhaven*
Stanley Aniline Chemical Works*Pa., Manayunk*
Dye Products Co.*Pa., Marcus Hook*
Benzol Products Co*Pa., Philadelphia*
*Andreykovicz & Dunk, 116 N. Front St.

*Bick & Undy, 49 S. Front St.

Coyne, George S., 58 N. Front St.

Fleming Chemical Co., 1711 Crasford Road

*Fuller & Apeldorn, 23 S. 9th St.

Kali Mfg. Co., 1408 Front St.

*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Philadelphia Aniline & Extract Co., Bourse Bldg.

Dyestuffs, Coal Tar—cont.*Pa., Reading*

Althouse Chemical Co., 500 Pear St.

Gates Aniline Products Co.

Reading Chemical Mfg. Co.

Pa., Scranton

American Color Co.

R. I., Providence

Agawan Chemical Works, 10 Weybosset St.

*Arnold, Hoffman & Co., 55 Canal St.
Industrial Chemical Co., P. O. Box 490

*Lewis, John D.

Tenn., Kingsport

Federal Dyestuff & Chemical Co.

Wash., Seattle

West Coast Chemical Co., 6961 Woodlawn Ave.

Wis., Marinette

Ansul Chemical Co.

Wis., Milwaukee

Newport Chemical Works, Inc.

Dyestuffs, Fur*N. Y., New York City*

*Kley, Inc., 39 Cortlandt St.

Dyestuffs, Vegetable*Cal., San Diego*

Lower California Chemical Co.

Md., Baltimore

Young Co., The, J. S.

Mass., Boston

Neponst Color Co., Hyde Park

Zobel Co., Inc., Ernest, 46 Cornhill

Mass., South Boston

Hub Dyestuff & Chemical Co., 595 E. 7th St.

N. J., Camden

Taylor, White Extracting Co., Cooper River and Pine Sts.

N. Y., Long Island City

Oakes Mfg. Co.

United States Dye Extracts Co., Vernon Ave.

N. Y., New York City

Baltic Chemical Co., 183 Duane St.

*Binney & Smith Co., 81 Fulton St.

Jaeck Co., Louis, 255 Front St.

Jamaica Dyewood & Chemical Co., 50 Church St.

Kalle & Co., 530 Canal St.

Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

New York Quebracho Co., 80 Maiden Lane

Marden, Orth & Hastings Co., 61 Broadway

Stamford Mfg. Co., 82 Wall St.

United Dyewood Corp., 80 Maiden Lane

Ohio, Marietta

Obex Co., The

Okla., Wapanauka

Dale Mfg. Co., James C.

Pa., Hanover

Young & Co., J. S.

Pa., Mt. Union

Mt. Union Tanning & Extract Co.

R. I., Providence

*Lewis, John D., 1209 Turks Head Bldg.

Va., Charlottesville

Young & Co., H. E.

Va., Lynchburg

Heald & Co., John H., Inc.

Dyewoods, Basic and Normal*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Dynamite (see Explosives)**Dynamite Gelatins***Del., Wilmington*

Atlas Powder Co.

Du Pont de Nemours & Co., E. I.

Hercules Powder Co., 10th and Market Sts

Earth, Fullers*N. Y., New York City*

*Cooper & Cooper, 309 Broadway

Pa., Warren

Floridin Co.

Texas, San Antonio

Medina Fullers Earth Co.

Earth, Green*N. J., Lincoln*

Atlas Mineral Products Co.

Earth, Infusorial*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y. Celite Products Co., 11 Broadway

N. J., Lincoln

Atlas Mineral Products Co., The

Electrolyte*Colo., Denver*

Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Pa., Warren

Riverside Acid Works

Electroplating Materials*N. Y., New York City*

Innis, Speiden & Co., Inc., 46 Cliff St.

Emery Ore*Pa., Philadelphia*

Lavino & Co., E. J., BuMitt Bldg.

Emetin Hydrochloride*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ind., Indianapolis

Lilly & Co., Eli, 224 E. McCarthy St.

Enamel, Gold*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Enamels*D. C., Washington*

American Rutile Co., 622 F St. N.W.

*Ill., Chicago*Nobian Paint & Varnish Co., 1856 Le
Claire Ave.*Mich., Detroit*

Acme White Lead & Color Works

Trus-Con Laboratories

*N. J., Newark*Murphy Varnish Co., Chestnut and
McWhorter Sts.*N. Y., Buffalo*Pratt & Lambert, Inc., 75-97 Tona-
wanda St.*N. Y., New York City*Berry Bros., 262 Pearl St. (Luxe-
berry)

Calman, Emil & Co., 100 William St.

General Bakelite Co., 2 Rector St.

Toch Bros., 320 Fifth Ave.

*Ohio, Cleveland*Glidden Co., Madison Ave. and Berea
Road

Sherwin-Williams Co.

Pa., Philadelphia

French & Co., Saml. H.

Enamels, Acid Proof*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, Laboratory*N. Y., New York City*

Toch Bros., 320 5th Ave.

Ohio, Warren

Goheen Mfg. Co., Main St.

Enamels, Machinery*N. Y., New York City*

Toch Bros., 320 Fifth Ave.

Enamels, Porcelain*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

**Enamels, Porcelain, for Sheet
Iron and Cast Iron***Md., Baltimore*Porcelain Enamel & Mfg. Co., O'Don-
nel and 8th Sts.**Enamels, Pyralin***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Enamels, Pyroxylin*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Hercules Powder Co., 10th and Mar-
ket Sts.*N. Y., New York City*

Arlington Co., The, 725-727 Broadway

Enamels, Technical*Mich., Detroit*Trus-Con Laboratories, Caniff Road
and G. T. R. R.**Enamels, for Apparatus, Black
Baking and Air Drying***Ohio, Cleveland*Glidden Varnish Co., 11001 Madison
Ave.**Enamels, for Copper, Gold and
Silver***Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

**Enamels, for Steel and Cast
Iron***Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

Enzymes*Mich., Detroit*

Digestive Ferments Co.

Eosine*N. Y., Monticello*

Mont Color & Chemical Co.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Cooper & Cooper, 309 Broadway

*Hellenic Chemical & Color Co., Inc.,
1 Cedar St.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Epsom Salts (see Magnesium
Sulphate)****Erythrosin***N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.

Ether*Del., Wilmington*

Du Pont de Nemours & Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600

N. 2d St.

N. Y., Albany

Albany Chemical Co.

N. Y., New York City

Bush & Co., W. J., 100 William St.

Cooper, Chas., & Co., 194 Worth St.

Merck & Co., 45 Park Place

Squibb, E. R., & Son, 78 Beekman St.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Ether, Beta Naphthyl Ethyl*N. Y., New York City*

Organic Products Corp., 369 State St.

Ether, Beta Naphthyl Methyl*N. Y., New York City*

Organic Products Corp., 369 State St.

Ether, Petroleum*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mojonnier Bros., Co., 833 W. Jackson Blvd.

Ether, Nitrous-Con*Mo., St. Louis*

Mallinckrodt Chemical Works., 3600

N. 2nd St.

Ether, Oenanthic*Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

Ether, Sulphuric (see Ether)**Ether, U.S.P.***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ether, Washed*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ethyl Acetate*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Hercules Powder Co., 10th and Market Sts

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Van Schaack Bros. Chemical Works

N. J., Carlstadt

Franco-American Chemical Works

N. J., Wallington

Anderson Chemical Co.

N. Y., Albany

Albany Chemical Co.

N. Y., New York City

Cooper, Chas., & Co., 194 Worth St.

National Aniline & Chemical Co., Inc.,

21 Burling Slip

U. S. Industrial Chemical Co., 27 William St.

Ohio, Cincinnati

Fries & Fries, 1501 13 W. 6th St.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Ethylamine*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Edgertyn Aniline Corporation, 118

William St.

Ethylaniline, Di.*N. Y., New York City*

Rector Chemical Co., Inc., 2 Rector St

Ethyl Benzoate*N. J., Jersey City*

Seydel Mfg. Co., Forrest and Halliday Sts.

Ethyl Bromide*Mich., Midland*

Dow Chemical Co.

N. J., Plainfield

Browne-Ferrer Inc

N. Y., New York City

Rector Chemical Co., Inc., 2 Rector St.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Ethyl Butyrate*Del., Wilmington*

Hercules Powder Co., 10th and Market Sts

Ill., Chicago

Van Schaack Bros. Chemical Works

N. Y., New York City

Bush & Co., Inc., W. J., 100 William St.

Ethyl Chlorocarbonate*Ill., Chicago*

Research Laboratory of Chicago, 467 E. Ontario St.

Ethyl Chloride*Ill., Chicago**Dagger & Co., A., 54*W. Kinzie St
N. J., Carlstadt

Franco-American Chemical Works

N. J., Plainfield

Browne-Ferrer Inc.

*N. Y., New York City*Clothel Co., The, 61 Broadway
Cooper & Co., Chas., 194 Worth St.

*Fries & Bro., 92 Reade St.

National Gum & Mica Co., 59th and
11th Ave.*Schwenker, Inc., W. M., 340-344 E.
92d St.**Ethyl Ether** (*see Ether*)**Ethyl Formate C. P.***Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Ethylmonochloracetate***Mich., Midland*

Dow Chemical Co.

Ethyl Nitrite*N. J., Carlstadt*

Franco-American Chemical Co.

Ethyl Oxalate C. P.*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Ethyl Propionate***Del., Wilmington*Hercules Powder Co., 10th and Market
Sts**Ethyl Valerate***Ill., Chicago*

Van Schaack Bros. Chemical Works

Wis., Wauwatosa

Northwestern Chemical Co.

Ethyl Valerate, Refined*Del., Wilmington*Hercules Powder Co., 10th and Market
Sts.**Ethylene Bromide***Mich., Midland*

Dow Chemical Co.

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Eucalyptol***N. Y., New York City*National Aniline & Chemical Co., Inc.,
21 Burling Slip**Eugenol***N. Y., New York City*

Bush & Co., W. J., 100 William St.

Dodge & Olcott Co., 87 Fulton St.

Euparal*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Explosives***Cal., San Francisco*Giant Powder Co., Consolidated, 1st
National Bank Bldg.*Del., Wilmington*

Atlas Powder Co.

DuPont de Nemours & Co., E. I.

Hercules Powder Co., 10th and Mar-
ket Sts.*Mass., Boston*American Powder Mills, 1002 Bd.
Trade Bldg.*N. Y., New York City*

Aetna Explosives Co., 120 Broadway

*Fuerst Bros. & Co., 2 & 4 Stone St.

*Ohio, Cincinnati*King Powder Co., First National Bank
Bldg.*Ohio, Cleveland*

Grasselli Powder Co.

Pa., Emporium

Cameron Powder Mfg. Co.

Tenn., Nashville

United States Smokeless Powder Co.

W. Va., Charleston

United States Smokeless Powder Co.

Extracts, Archil*Mass., Boston*United Indigo & Chemical Co., 176
Federal St.*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Berlin Aniline Works, 213 Water St.

*Bischoff & Co., C., 451 Washington
St.

*Innis, Speiden & Co., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Co., 61
Broadway*R. I., Providence*

Arnold, Hoffman & Co., 55 Canal St.

*Lewis, John D.

Extracts, Blend*Pa., Hanover*

Young & Co., J. S.

Extracts, Chestnut*Mass., Boston*

Smethport Extract Co., 409 Exchange Bldg.

N. Y., Glens Falls

Imperial Color Works, Inc.

Imperial Dyewood Co., Inc.

N. Y., New York City

National Gum & Mica Co., 59th St. and 11th Ave.

N. C., Rosman

Rosman Tanning Extract Co.

Pa., Hanover

Young & Co., J. S., Park Ave.

Pa., Mt. Union

Mt Union Tanning & Extract Co.

Va., Lynchburg

Heald & Co., J. H.

Va., Marion

Marion Extract Co

W. Va., Charleston

Tanners Extract Co

Extracts, Chestnut-Oak*Mass., Boston*

Smethport Extract Co., 409 Exchange Bldg.

N. Y., Glens Falls

Imperial Color Works, Inc.

Imperial Dyewood Co., Inc.

N. Y., New York City

National Gum & Mica Co., 59th St. and 11th Ave.

N. C., Rosman

Rosman Tanning Extract Co.

Pa., Mt. Union

Mt. Union Tanning & Extract Co.

Va., Lynchburg

Heald & Co., J. H.

Va., Marion

Marion Extract Co.

W. Va., Charleston

Tanners Extract Co.

Extracts, Cutch*England, Manchester*

*Willcocks & Co., Ltd., H. S., 5, Beaver St.

Mass., Boston

United Indigo & Chemical Co., 176 Federal St.

N. Y., Glens Falls

Imperial Color Works, Inc.

Imperial Dyewood Co., Inc.

N. Y., Long Island City

Oakes Mfg. Co.

N. Y., New York City

American Dyewood Co., 80 Maiden Lane

Berlin Aniline Works, 213 Water St.

*Fuller & Co., Ralph L., 4 Rector St.

*Innis, Speiden & Co., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp., 61 Broadway

Stamford Extract Mfg. Co., 88 Wall St.

Pa., Hanover

Young & Co., J. S.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Lewis, John D., 1209 Turk Head Bldg.

Extracts, Deadwood*Mass., Boston*

United Indigo & Chemical Co., 176 Federal St.

Extracts, Divi Divi*Mass., Boston*

Smethport Extract Co., 409 Exchange Bldg.

N. Y., Glens Falls

Imperial Color Works, Inc.

Imperial Dyewood Co., Inc.

N. Y., New York City

National Gum & Mica Co., 59th St. and 11th Ave.

N. C., Rosman

Rosman Tanning Extract Co.

Pa., Hanover

Young & Co., J. S.

Pa., Mt. Union

Mt Union Tanning & Extract Co

Va., Lynchburg

Heald & Co., J. H.

Va., Marion

Marion Extract Co.,

W. Va., Charleston

Tanners Extract Co

Extracts, Dry Malt*Ohio, Cincinnati*

American Diamalt Co., 419 Plum St.

Extracts, Dyewood*Mass., Boston*

Rosentwist & Gerner, 26 India Square

Mass., Worcester

Marble & Co., J. Russell

N. Y., Glens Falls

Imperial Dyewood Co., Inc.

N. Y., New York City

Berlin Aniline Works, 213 Water St.

Bredt & Co., &., 240 Water St.

Edgertyn Aniline Corp., 118 William St.

*Holliday, Read & Sons (Ltd.), 160 Franklin St.

Industrial Chemical Co.

*Innis, Speiden & Co., 46 Cliff St.

*Jaecck Co., Louis, 257 Front St.

Jamaica Dyewood & Chemical Co., 50 Church St.

Extracts, Dyewood—cont.*N. Y., New York City—cont.*

*Kuttruff, Pickhardt & Co., Inc., 128 Duane St.

Marden, Orth & Hastings Corpn., 61 Broadway

Stamford Extract Mfg. Co., 82 Wall St.

Pa., Hanover

Young & Co., J. S., Park Ave.

Pa., Philadelphia

*Andrejkovicz & Dunk, 58 N. Front St.

*Fortner Co., L. B., 36-38 Strawberry St.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

*Lewis, John D.

Extracts, Fustic*England, Manchester*

Robinson & Co., H. F., Newton Heath

*Willcocks & Co., Ltd., H. S., 5, Beaver St.

Mass., Boston

Bird, J. A. & W., Co.,

United Indigo & Chemical Co., 176 Federal St.

N. J., Camden

Taylor, White Extracting Co., Cooper River and Pine Sts.

N. Y., Glens Falls

Imperial Color Works, Inc.

Imperial Dyewood Co., Inc.

N. Y., Long Island City

Oakes Mfg. Co.

N. Y., New York City

Berlin Aniline Works, 213 Water St.

Edgertyn Aniline Corp., 118 William St.

*Holliday, Read & Sons (Ltd.), 160 Franklin St.

*Innis, Speiden & Co., 46 Cliff St.

Jamaica Dyewood & Chemical Co., 50 Church St.

*Klipstein & Co., A., 644 Greenwich St.

*Kuttruff, Pickhardt & Co., 128 Duane St.

Marden, Orth & Hastings Corpn., 61 Broadway

*Sloan & Russell, Inc., 132 Nassau St.

Stamford Extract Mfg. Co., 82 Wall St.

Pa., Hanover

Young & Co., J. S.

Pa., Philadelphia

Vila Color Co., H. S., 243 S. 2d St.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Lewis, John D., 1209 Turks Head bldg.

Va., Lynchburg

Heald & Co., Inc., John H.

Extracts, Gambier*N. Y., Glens Falls*

Imperial Color Works, Inc.

Imperial Dyewood Co., Inc.

N. Y., Long Island City

Oakes Mfg. Co.

N. Y., New York City

*Fuller & Co., Ralph, 4 Reector St.

Stamford Extract Mfg. Co., 82 Wall St.

Pa., Hanover

Young & Co., J. S.

Extracts, Hematin*N. Y., Glens Falls*

Imperial Color Co., Inc.

Imperial Dyewood Co.

N. Y., Long Island City

Oakes Mfg. Co.

N. Y., New York City

American Dyewood Co.

*Campbell, C. W., 11 Cliff St.

Industrial Chemical Co., Fifth Ave. Bldg.

Jamaica Dyewood & Chemical Co., 50 Church St.

Kuttruff, Pickhardt & Co., Inc., 128 Duane St.

Marden, Orth & Hastings Corpn., 61 Broadway

United States Dye Extracts Co., 801 Vernon Ave.

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Hanover

Young & Co., J. S.

Va., Lynchburg

Heald & Co., Inc., John

Extracts, Hemlock*Ill., Chicago*

American Extract Co., 129 W. Kinzie St.

Mich., Petoskey

Michigan Tanning & Extract Co.

N. Y., New York City

Imperial Dyewood Co., 47 W. 34th St.

Industrial Chemical Co., Fifth Ave. Bldg.

Pa., Hanover

Young & Co., J. S.

Pa., Port Alleghany

American Extract Co.

Va., Lynchburg

Heald & Co., Inc., John H.

Extracts, Hypernic*N. Y., Glen Falls*

Imperial Color Co., Inc.

Imperial Dyewood Co., Inc.

N. Y., New York City

Jamaica Dyewood & Chemical Co. 50 Church St.

Pa., Hanover

Young & Co., J. S.

Va., Lynchburg

Heald & Co., Inc., John H.

Extracts, Indigo (See Indigo)

Extracts, Larch

- N. Y., Glens Falls*
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
Industrial Chemical Co., Fifth Ave. Bldg.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Logwood

- Cal., San Francisco*
Dill-Crossett, Inc., Postal Telegraph Bldg.
England, Manchester
Robinson & Co., H. F., Newton Heath
*Willecocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mass., Worcester
*Brewer & Co.
N. Y., Glens Falls
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
U. S. Dye Extracts Co., Inc., 801 Vernon Ave.
N. Y., New York City
American Dyewood Co., 80 Maiden Lane
*Campbell, C. W., 11 Cliff St.
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Holliday, Read & Sons, Ltd., 160 Franklin St.
*Fuller & Co., Ralph, 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Klipstein & Co., A., 644 Greenwich St.
Logwood Products Corp., 115 Broadway
Marden, Orth & Hastings Corp., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
*Sloan & Russell, Inc., 132 Nassau St.
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Ohio, Cleveland
Grasselli Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Lewis, John D., 1209 Turks Head Bldg.

- Va., Lynchburg*
Heald & Co., Inc., John

Extracts, Mangrove

- N. Y., Glens Falls*
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
*Innis, Speiden & Co., 46 Cliff St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Myrabolam

- N. Y., Glens Falls*
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Oak

- N. Y., Glens Falls*
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
N. Y., New York City
*Doherr, Grimm & Co., Inc., 87 Gold St.
Pa., Hanover
Young & Co., J. S.
Tenn., Knoxville
Southern Extract Co.
Va., Buena Vista
Buena Vista Extract Co.
Va., Marion
Marion Extract Co.
W. Va., Charleston
Tanners Extract Co.

Extracts, Osage Orange

- N. Y., Glen Falls*
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Industrial Chemical Co., Fifth Ave. Bldg.
Kuttruff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Pharmaceutical*(see Chemicals, Pharmaceutical)***Extracts, Pine**

W. Va., Charleston
Tanners Extract Co.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Quebracho

N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Argentine Quebracho Co., 17 Battery
Place
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William
St.
Marden, Orth & Hastings Corp., 61
Broadway
*New York Quebracho Extract Co.,
Inc. 80 Maiden Lane
Stanford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Quercitron

England, Manchester
Robinson & Co., H. F., Newton Heath
N. J., Camden
Taylor, White Extracting Co., Cooper
River and Pine St.
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
*Fuller & Co., Ralph, 4 Rector St.
Kuttroff, Pickhardt & Co., Inc., 128
Duane St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., John N., Inc.

Extracts, Spruce

N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Sumac

Mass., Boston
United Indigo & Chemical Co. 176
Federal St.

N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc. *
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., Hastings-On-Hudson
*Zinsser & Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Edgertyn Aniline Corp., 118 William
St.
Bredt & Co., F., 240 Water St.
*Holliday, Read & Sons (Ltd.) 160
Franklin St.
Jamaica Dyewood & Chemical Co.,
50 Church St.
Kalle Color & Chemical Co., 530 Canal
St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128
Duane St.
Marden, Orth & Hastings Co., 61
Broadway
Stanford Extract Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front
St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Tannin

Mass., Boston
United Indigo & Chemical Co., 176
Federal St.
N. J., Newark
*American Oil & Supply Co., 52 Lafayette
Ave
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William
St.
Industrial Chemical Co., Fifth Ave.
Bldg
Klipstein & Sons Co., E. C., 644 Green-
wich St.
Marden, Orth & Hastings Corp., 61
Broadway
Stanford Mfg. Co., 82 Wall St.
Zobel Co., Inc., Ernest, 38 Water St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Va., Lynchburg
Heald & Co., Inc., J. H.

Extracts, Wool

N. Y., New York City
Marden, Orth, Hastings Corp'n, 61
Broadway

Fats, Animal

Ohio, Dayton
Economy Soap Products Co., N. Irwin
St.

Feculose

Mass., Ayer
Feculose Co. of America

Feldspar

Ill., Chicago
*Rhodes, J. H., Co., 157 W. Austin
Ave.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene
St.
N. Y., New York City
Clinchfield Products Co., 120 Broad-
way
Drakenfeld & Co., Inc., B. F., 50
Murray St.
Hammill & Gillespie, 240 Front St.
Roessler & Hasslacher Chemical Co.,
100 William St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener
Bldg.

Ferments

Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Parke, Davis & Co., at Water St.
Stearns & Co., Frederick, Jefferson
and Bellevue Ave.
N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Chr., P. O.
Box 3099
N. Y., New York City
Fairchild Bros. & Foster, 74 Laight St.
Franco-American Ferment Co., 124
W. 31st St.
Pasteur Laboratories of America, 366
W. 11th St.
Pa., Hanover
Acme Extract & Chemical Works
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythwood
Sq.

Ferric Acetate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich
St.

Ferric Cacodylate

N. Y., New York City
*Fougera & Co., E., 90 Beekman St.

Ferric Chloride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2d St.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Eissing Chemical Co., 225 Fifth Ave.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Pl.
Roessler & Hasslacher Chemical Co.,
100 William St.
Squibb & Sons, E. R., 80 Beekman St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener
Bldg.
Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Ferric Chromate

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chrystal, Chas. B., 11 Cliff St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Ferric Hydroxide

N. Y., New York City
*Richmond Products Co., 32 Broad-
way

Ferric Nitrate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich
St.
General Chemical Co., 25 Broad St.

Ferric Oxalate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2nd St.

Ferric Oxide

Cal., San Francisco
Stauffer Chemical Co., 624 California
Ave.
N. J., Lincoln
Atlas Mineral Products Co., The
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Greene St.

Ferric Oxide—cont.*N. Y., New York City*

Baker & Co., H. J., 100 William St.

*Chrystals, Charles B., 11 Cliff St.

*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.

*Fuller & Co., Ralph, L., 4 Rector St.

Heller & Merz Co., 505 Hudson St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip

*Osborn Co., C. J., 132 Nassau St.

*Tennant Sons & Co., C., 100 William
St.*Ohio, Cleveland*

Grasselli Chemical Co.

*Harshaw, Fuller & Goodwin Co.

Ferric Oxide, Hydrated*Pa., Philadelphia*

Lavino & Co., E. J., Bullitt Bldg

**Ferric Phosphate, Soluble—
U. S. P.***Mo., St. Louis*Mallinckrodt Chemical Works, 3600 N.
2nd St.**Ferric Sulphate***Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Ferric Sulphide*N. Y., New York City*

General Chemical Co., 25 Broad St.

Ferric Vanadate*Colo., Denver*Chemical Products Co., 612 Majestic
Bldg.**Ferro-Alloys (see Alloys)****Ferrous Ammonium Sulphate***Mo., St. Louis**Heil, Henry, Chemical Co., 210-214
S. 4th St.*N. Y., New York City*

Merek & Co., 45 Park Place

*Pa., Philadelphia**Thomas, Arthur H., Co., W. Wash-
ington Square**Ferrous Chloride***Mo., St. Louis*

Dow Chemical Co.

*N. Y., New York City*Butterworth-Judson Corp., 61 Broad-
way

Cooper & Co., Charles, 194 Worth St.

General Chemical Co., 25 Broad St.

Roessler & Hasslacher Chemical Co.,
100 William St.

Squibb & Sons, E. R., 80 Beekman St.

Ohio, Cleveland

Grasselli Chemical Co.

*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co.

Ferrous Citrate*N. Y., New York City*

*Pfizer & Co., Chas., 81 Maiden Lane

Ferrous Hydroxide*N. Y., New York City**Richmond Products Co., 32 Broad-
way**Ferrous Oxalate***Mo., St. Louis*Mallinckrodt Chemical Works, 3600 N.
2nd St.**Ferrous Sulphate***Cal., San Francisco*

Barbour Chemical Works

Stauffer Chemical Co.

England, Liverpool

Haddock, Parker & Co., 14 Chapel St.

Ill., Chicago

American Steel & Wire Co.

*Daigger & Co., A., 54 W. Kinzie St.

Rhodes Co., James H., 157 Austin Ave.

Ill., Peoria

Keystone Steel & Wire Co.

*Mass., Boston*King & Co., Inc., E. & F., 367 Atlantic
Ave.*Md., Baltimore**Maryland Chemical Co., Columbia
Ave. & B. & O. R. R.*Mo., Kansas City*

National Zinc Co., Packers Station

*Mo., St. Louis**Heil Chemical Co., Henry, 210-214
S. 4th St.Lambert Chemical Co., R. R. Ex-
change Bldg.Mallinckrodt Chemical Works, 3600
N. 2d St.*N. Y., New York City*Cooper & Co., Charles, 194 Worth
St.*Cooper & Cooper, 309 Broadway
Drakenfeld & Co., Inc., B. F., 50
Murray St.

General Chemical Co., 25 Broad St.

*Beer, Sondheimer & Co., 61 Broad-
wayKalbfleisch Corp., 31 Union Square,
W.Marden, Orth & Hastings Co., 61
Broadway

Merek & Co., 45 Park Place

*Rockhill & Vietor, 22 Cliff St.

Ferrous Sulphate—cont.*N. Y., New York City—cont.*

Squibb & Sons, E. R., 80 Beekman St.

Toch Bros., 320 5th Ave.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co.

Ohio, Columbus

Harshaw, Fuller & Goodwin Co.

Ohio, Youngstown

Youngstown Sheet & Tube Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co.

Powers-Weightman-Rosengarten Co.

Pa., Philadelphia

Taylor Co., Inc., N. & G., 300 Chestnut St.

Ferrous Sulphide*N. Y., New York City*

General Chemical Co., 25 Broad St.

Merck & Co., 45 Park Place

Fertilizer Materials*Ala., Birmingham*

Tennessee Coal, Iron & R.R. Co.

Ala., Montgomery

Alabama Chemical Co.

Ala., Troy

Standard Chemical & Oil Co.

Cal., Berkeley

Pacific Guano & Fertilizer Co.

Cal., Los Angeles

Hauser Packing Co.

Riverside Portland Cement Co.

Cal., San Francisco

Hawaiian Fertilizer Co., 244 California St.

Mountain Copper Co., 32 Pine St.

Pacific Guano & Fertilizer Co., 343 Sansome St.

Union Sugar Co., 310 Sansome St.

Union Superphosphate Co., 343 Sansome St.

Western Meat Co.,

110 Sutter St.

Conn., Middletown

Rogers & Hubbard Co., The

Del., Lewes

Lewes Fisheries Co.

Fla., Gainesville

Florida Fertilizer Co.

Fla., Jacksonville

Wilson & Toomer Co.

Fla., Pierce

Pierce Phosphate Co.

Fla., Tampa

Gulf Fertilizer Co.

Ga., Athens

Southern Refining Co.

Ga., Atlanta

Empire Cotton Oil Co.

Marietta Fertilizer Co.

*Ga., Savannah**

Comer, E. T., & Co.

Hull, James, & Co.

Southern Fertilizer & Chemical Co.

Ill., Chicago

Armour Fertilizer Works

Cudahy Packing Co.

*Daigger & Co., A., 54 W. Kinzie St.

Morris & Co., Union Stock Yards

Swift & Co., Union Stock Yards

Wilson & Co.

Ind., Evansville

Evansville Packing Co.

Ky., Louisville

Federal Chemical Co.

La., New Orleans

Planters Fertilizer & Chemical Co.

Standard Guano & Chemical Mfg.

Co., Whitney Central Bldg.

Me., Portland

Portland Rendering Co.

Md., Baltimore

Baugh & Sons Co., 27 S. Calvert St.

Devison Chemical Co., Garrett Bldg.

Ober, G., & Sons Co., Fidelity Bldg.

Patapsco Guano Co., Vicker's Bldg.

Rasiu-Monumental Co., National Marine Bank Bldg.

Mass., Boston

Bradley Fertilizer Works, 92 State St.

Consolidated Rendering Co.

Mich., Detroit

Michigan Carbon Works, Carbon and

Formen Aves.

Miss., Meridian

Meridian Fertilizer Co.

Mo., St. Louis

Mathiason, P. B., Mfg. Co., 5342 N. 2d St.

N. J., Newark

Listers Agricultural Chemical Works

N. J., Stewartville

Edison Portland Cement Co.

N. Y., Buffalo

Buffalo Fertilizer Works, Marine

National Bank Bldg.

Dold Packing Co., Jacob, 745 William St.

N. Y., New York City

American Agricultural Chemical Co., 2 Rector St.

American Beet Sugar Co., 32 Nassau St.

American Cotton Oil Co.

American Cyanamid Co., 511 Fifth Ave.

*Baker & Bro., H. J., 81 Fulton St.

Bowker Fertilizer Co., 60 Trinity Pl.

Coe-Mortimer Co., 51 Chambers St.

Fertilizer Materials—cont.*N. Y., New York City—cont.*

*Consumers Chemical Corp., 25 Broad St.

*Fuerst Bros. & Co., 2 & 4 Stone St.
International Agricultural Corp., 165 Broadway

*Mapes Formula & Peruvian Guano Co., 143 Liberty St.

Marden, Orth & Hastings Co., 61 Broadway

Nitrate Agencies Co., 85 Water St.
Peace River Phosphate Mining Co., 2 Rector StPhosphate Mining Co., 55 John St.
Salmon & Co., H 11., 88 Wall St.Southern Cotton Oil Co., 2 Broad St.
Union Seed & Fertilizer Co., 65 Broad-

way

*Wessel, Duval & Co.

N. C., Raleigh

Caraleigh Phosphate & Fert. Co.

Ohio, Cincinnati

Joslin-Schmidt Co., 3223 Spring Grove Ave.

Ohio, Sandusky

Jarecki Chemical Co.

Pa., Philadelphia

Baugh & Sons Co., 20 S. Delaware Ave.

Hafleigh & Co., 2813 N. American Ave.
Martin Co., D. B., Inc., 30th and

Market Sts.

Pennsylvania Salt Mfg. Co.

Shoemaker, M. L., & Co., E
Venango, near Delaware Ave

Thomas & Son Co., I. P., Drexel Bldg.

Pa., Pittsburgh

American Reduction Co., Brushton Ave. and P. R. R.

Pittsburgh Provision & Packing Co., Herrs Island

Pa., York

York Chemical Works

S. C., Charleston

Combahee Fertilizer Co.

Etiwan Fertilizer Co.

Planters' Fertilizer & Phosphate Co.

Tenn., Columbia

International Phosphate Co.

Tenn., Memphis

Tennessee Cotton Oil Co.

Tenn., Nashville

Read Phosphate Co.

Tennessee Chemical Co.

Tennessee Fertilizer Co.

Texas, Houston

Houston Packing Co.

Va., Norfolk

American Fertilizing Co.

Columbia Guano Co.

Farmers' Guano Co.

Royster, E. S., Guano Co.

Va., Richmond

Virginia-Carolina Chemical Co.

Wash., Anacortes

Robinson Fisheries Co.

Wash., Seattle

American Nitrogen Products Co.

Wash., Tacoma

Carstens Packing Co.

Fibre, Asbestos*N. J., Manville*

Johns-Manville Co.

Fibre, Insulating*Del., Wilmington*

American Vulcanized Fibre Co.

Delaware Hard Fibre Co.

Pa., Bridgeport

Diamond State Fibre Co.

Fibre, Vulcanized*Del., Wilmington*

American Vulcanized Fibre Co.

Delaware Hard Fibre Co.

Pa., Bridgeport

Diamond State Fibre Co.

Filler, Asphalt*Mo., St. Louis*

Certain-teed Products Co.

N. J., Lincoln

Atlas Mineral Products Co.

N. Y., New York City

Texas Co., 17 Battery Place

Fillers, Cement*Mo., St. Louis*

Certain-teed Products Co.

N. Y., New York City

Toch Bros., 320 Fifth Ave.

Fillers, Paint*Ill., Chicago*

U. S. Gypsum Co., 205 W. Monroe St.

Mo., St. Louis

Certain-teed Products Co.

Fillers, Paper*Ill., Chicago*

U. S. Gypsum Co., 205 W. Monroe St.

Victor Chemical Works, Fisher Bldg.

Mich., Kalamazoo

Western Paper Maker's Chemical Co.

Mich., Midland

Dow Chemical Co.

N. Y., New York City

International Pulp Co., 41 Park Row

St. Lawrence Tale Co., 7 E. 42d St.

N. Y., Syracuse

Semet-Solvay Co.

Filter-Cel

N. Y., New York City
Celite Products Co.

Finishes, Automobile

N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.

Finishes, Leather

N. Y., New York City
Innis. Speiden & Co., Inc., 46 Cliff St.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Finishes, Textiles

N. Y., New York City
Jaeck Co., Louis, 257 Front St.

Flint

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.

Flint Shot

Ill., Chicago
United States Silica Co., 122 S. Michigan Ave.

Flour, Slate

N. J., Lincoln
Atlas Mineral Products Co.

Flour, Wood

N. Y., New York City
Industrial Chemical Co., Fifth Ave. Bldg.

Fluxes, Soldering

Mo., St. Louis
Dielectric Mfg. Co.

Fire Brick (*see Brick, Fire Clay*)**Fire Clay, Special Shapes**

N. J., Perth Amboy
Didier-March Co.

Fire Extinguishing Compound

N. J., Camden
MacAndrews & Forbes Co., 3d St. and Jefferson Ave.

Flavine

N. Y., New York City
Stainford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.

Florine, Diamond

Pa., Reading
Althouse Chemical Co.

Fluorescein

Cal., San Francisco
California Aniline & Chemical Co.,
33 Clementina St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Fluorspar

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ky., Marion
Kentucky Fluor Spar Co.
N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Drakenfeld & Co., B. F., 50 Murray St.
*Hammill & Gillespie, 240 Front St.
Rhodes. J. H., & Co., 162 William St
*Tennant, C., Sons & Co., 100 William St.
*Waddell, R. J., & Co., 52 Beekman St.
*Whittaker, W. H., & Co., 252 Front St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Formaldehyde

England, Darlington
Parkin, Ness & Co., Quebec St.
England, London
American Commerce Co., Ltd., The,
19 St. Bride St.
Ill., Chicago
Central Commercial Co.
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Baker & Bro., H. V., 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
*Huisking, Inc., Chas. L., 5 Platt St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place

Formaldehyde—cont.*N. Y., New York City—cont.*National Aniline & Chemical Co., Inc.,
21 Burling Slip

*Nitrate Agencies Co., 102 Pearl St.

Perth Amboy Chemical Works, 100
William St.Roessler & Hasslacher Chemical Co.,
100 William St.*Takamine Commercial Corporation,
120 Broadway.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

National Electrolytic Co.

Ohio, Cincinnati

Fries & Fries, 1501-13 W. 6th St.

*Ohio, Cleveland*Cleveland-Cliffs Iron Co., Rockefeller
Bldg.*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.*R. I., Providence**Lewis, John D., 1209 Turks Head
Bldg.**Formaldehyde, Solidified***N. Y., New York City*Heyden Chemical Works, 135 William
St.**Formate of Soda (see Sodium For-
mate)****Fuchsine***N. Y., New York City**Helleme Chemical & Color Co., Inc.,
1 Cedar St.L & R Organic Products Co., Inc.,
27 Thames St.*N. Y., Schenectady*

Organic Products Corporation

Fuchsine, Acid and Basic*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Fuchsine, Carbol***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Fuchsine Crystals***Mass., Boston*

Atlantic Dyestuff Co., 88 Ames Bldg.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

*Dicks David Co., Inc., 302 Broadway

*Drug & Dyestuff Corp., 120 Broad-
wayMarden, Orth & Hastings Corp'n, 61
BroadwayNational Aniline & Chemical Co., Inc.,
21 Burling Slip*Pa., Philadelphia**Pennsylvania Color Mfg. Co., 248
Chestnut St.**Fuchzine, Diamond***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Fuller's Earth (See Earth, Fuller's)****Fungicides (see Insecticides)****Furamines***N. J., Jersey City*Seydel Mfg. Co., Forrest and Holliday
Sts.**Fustic (See Extract, Fustic)****Gall Nuts***N. Y., New York City*

*Fuerst Bros. & Co., 2 Stone St.

Garnet, Direct*Pa., Reading*Althouse Chemical Co., 500-540 Pear
St.**Gelatine***Cal., San Francisco*California Glue Co., Fairfax Ave. and
Rankin St.*Ill., Chicago*

Armour & Co.

United Chemical & Organic Products
Co.*Mass., Boston*

American Glue Co., 121 Beverly St.

Essex Gelatine Co., 40 N. Market St.

Mich., Detroit

Digestive Ferments Co.

Mo., St. Louis

Readron Glue Mfg. Co.

N. Y., Le Roy

Genesee Pure Food Co.

*N. Y., New York City*American Agricultural Chemical Co.,
2 Rector St.Coignet Chemical Products Co., Inc.,
17 State St.Edgertyn Aniline Corp., 118 William
St.

*Hewitt & Co., C. B., 48 Beekman St.

Milligan & Higgins Glue Co., 222
Front St.National Gum & Mica Co., 59th St.
and 11th Ave.

*Pfaltz & Bauer, Inc., 300 Pearl St.

*Rockhill & Vietor, 22 Cliff St.

Southern Oil & Chemical Co., 15 Park
Row

*Stanley, Jordan & Co., 116 Broad St.

*Pa., Philadelphia*Smith, Kline & French Co., 431 Arch
St.

Gelatine, Vegetable*Md., Baltimore*Bloede Co., Victor G., Caton Ave.,
Station "D"**Gelseminine Hydrobromide***Ill., Chicago*

Abbott Laboratories, The, 4753 Ravenswood Ave.

Geraniol*N. Y., New York City*

Florasynt Laboratories, Inc., 231 Pearl St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip**Geranyl Acetate***N. Y., New York City*National Aniline & Chemical Co., Inc.,
21 Burling Slip**Gilsonite***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Lamson & Bro., John L., 80 Maiden Lane

Marden, Orth & Hastings Corp'n., 61 Broadway

Pa., Philadelphia

Barber Asphalt Paving Co., Land Title Bldg.

Gland Products*Ill., Chicago*

Armour & Co.

Mich., Detroit

Digestive Ferments Co., 240 Henry St.

Parke, Davis & Co.

N. Y., New York City

Cudahy Packing Co.

Glass, Powdered*N. Y., Brooklyn*

Wiarda & Co., John C., 273 Green St.

Glauber's Salt (*see Sodium Sulphate*)**Glucose***England, Liverpool*

Haddock, Parker & Co., 14 Chapel St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Iowa, Cedar Rapids

Douglas Co.

N. Y., New York City

American Maize Products Co., 135 William St.

Corn Products Refining Co., 17 Battery Place

Glue, Fish*Cal., San Francisco*

Imperial Glue Co., Kohl Bldg.

Mass., Boston

Commonwealth Glue Co., 40 N. Market St.

Mass., Gloucester

Russia Cement Co.

N. Y., New York City

National Glue & Gelatine Works, 2 West End Ave.

National Gum & Mica Co., 59th St. and 11th Ave.

Wash., Anacortes

Robinson Fisheries Co.

Glue, Flexible*N. Y., New York City*

National Glue & Gelatine Works, 2 West End Ave.

National Gum & Mica Co., 59th St. and 11th Ave.

Glue, Leather Manufacturer's*N. Y., New York City*

National Gum & Mica Co., 59th St. and 11th Ave.

Glue, Liquid*Mass., Boston*

Commonwealth Glue Co., 40 N. Market St.

Mass., Gloucester

Russia Cement Co.

Mo., St. Louis

American Glue Co., 410 Elm St.

N. Y., New York City

Cointet Chemical Products Co., Inc., 17 State St.

Major Mfg. Co., 461 Pearl St.

National Gum & Mica Co., 59th St. and 11th Ave.

Ohio, Cleveland

Grasselli Chemical Co.

Glycerine*Cal., Los Angeles*

Los Angeles Soap Co., 633 E. 1st St.

Cal., San Francisco

Moore & Co., George A., 212 California St.

England, Smithy Bridge near Rochdale

Dearhead Chemical Co.

Ill., Aurora

Jobbins, Inc., W. F., 923 N. Lake St.

Ill., Chicago

Armour Soap Works

Cudahy Packing Co., 111 W. Monroe St.

*Daigger & Co., A., 54 W. Kinzie St.

Fairbanks Co., N. K.

Kirk & Co., J. S., 106 E. Austin Ave.

Swift & Co., Union Stock Yards

Wilson & Co.

Glycerine—cont.

- Kan., Kansas City*
Peet Bros. Mfg. Co. •
- Ky., Louisville*
Louisville Soap Co., 2440 Floyd St.
- Md., Baltimore*
McCormick & Co., McCormick Bldg.
Virginia Red Oil Products Corporation.
- Mass., Cambridge*
Lever Bros.
- Mass., Lynn*
Marsh Co., George E.
- Mass., Worcester*
Brewer & Co.
- N. J., Jersey City*
Colgate & Co.
- N. Y., Buffalo*
Kellogg Products Co.
Larkin Co.
Lautz Bros. & Co., 44 Hanover St.
- N. Y., Kingston*
Nitro Powder Co.
- N. Y., New York City*
*American Trading Co., 25 Broad St.
Babbitt, B. T., 11 Broadway
*Freeman & Co., R. B., 92 Wall St.
*Fuerst Bros. & Co., 2 Stone St.
*Fuller & Co., Ralph L., 4 Rector St.
*Garrigues Co., Charles F., 80 Maiden Lane
Gaston, Williams & Wigmore, Inc., 35-39 Broadway
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Marden, Orth & Hastings Corp., Inc., 61 Broadway
*Marx & Rawolle, 100 William St.
Merek & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Southern Cotton Oil Co., 120 Broadway
National Oil Products Co., 220 Broadway
*Takamine Commerical Corporation, 120 Broadway.
- N. Y., Syracuse*
Will & Baumer Co.
- Ohio, Celina*
Celina Stearic Acid Co.
- Ohio, Cincinnati*
Emery Candle Co., 44 Walnut St.
Globe Soap Co., United Bank Bldg.
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Moore Oil Co., York and McLean Ave.
Proctor & Gamble Co., Gwynn Bldg.

- Ohio, Cleveland*
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.
- Ohio, Dayton*
Economy Soap Product Co., N. Irwin St.
- Ohio, St. Bernard*
Werk Co., The M.
- Pa., Philadelphia*
Fels & Co., 73rd St. and Woodland Ave.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
- R. I., Providence*
Arnold, Hoffman & Co., 55 Canal St.
- Glycerine, High Gravity**
- Ohio, Cincinnati*
Proctor & Gamble Co., Gwynne Bldg.

Glycerophosphates

- Mo., St. Louis*
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works, 1800 S. 2d St.
- N. Y., New York City*
Merek & Co., 45 Park Place

Gold

- Ill., Chicago*
Goldsmith Bros., Smelting & Refining Co.
- Mass., Boston*
U. S. Smelting, Refining & Mining Co., 55 Congress St.
- N. J., Irvington*
Irvington Smelting & Refining Co.
- N. Y., New York City*
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Platt Co., Charles S.

Gold Chloride

- Mo., St. Louis*
Mallinckrodt Chemical Works
- N. Y., Glen Falls*
Anes Chemical Works, 21 Sherman Ave.
- N. Y., New York City*
Cooper, Chas., & Co., 194 Worth St.
Merek & Co., 45 Park Place
Powers-Weightman-Rosengarten Co.
- Pa., Philadelphia*
Phillips & Jacobs, 622 Race St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Gold, Liquid

- N. J., Newark*
Hanovia Chemical & Mfg. Co., Chestnut St. and N. J. Railroad Ave.

Gold Oxide*N. Y., New York City*

Cooper, Chas., & Co., 194 Worth St.

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Glycerine Jelly***Pa., Philadelphia*Harmer Laboratories Co., 1704 Mar-
ket St.**Glycerophosphate of Iron***Mo., St. Louis*Monsanto Chemical Works, 2nd St.
and Lafayette Ave.**Graphite***Cal., San Francisco*

Dill-Crosett, Inc., 235 Pine St.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Obermayer Co., S., 2563 W. 18th St.*Mich., Saginaw*

United States Graphite Co

N. J., Jersey City

Dixon Crucible Co., Joseph

N. Y., Niagara Falls

International Acheson Graphite Co.

N. Y., New York City

Baker & Bro., H. J., 100 William St.

*Chrystal, Charles B., 11 Cliff St.

Crooks & Co., Robert, 135 Front St.

*Dunn & Kruse, 53 Park Row

*Fuerst Bros., & Co., 2 Stone St.

*Patterson, Boardman & Knapp, 10
Bridge St.

*Waddell & Co., R. J., 56 Beekman St.

*Whittaker Co., W. H., 250 Front St.

Ohio, Columbus

Aetna Graphite Co.

Gray Brown*Mich., Holland*

Holland Aniline Co.

Grease, Animal*Ohio, Dayton*Economy Soap Products Co., N. Irwin
St.**Grease, for Technical Purposes***England, Liverpool*

Haddock Parker & Co., 14 Chapel St.

*Ill., Chicago*Cudahy Packing Co., 111 W. Monroe
St.Dearborn Chemical Co., McCormick
Bldg.

Sinclair Refining Co., Conway Bldg.

Stuart & Co., Inc., D. A., 29 S. La
Salle St.

Wilson & Co.

*Md., Baltimore*Robinson & Son Co., Wm. C., 32 South
St.*Mass., Atlantic*

*Bosson & Lane

*Mich., Detroit*White Star Refining Co., 614-648
Avery Ave.*Mich., Saginaw*

U. S. Graphite Co.

Minn., Minneapolis

Van Tilburg Oil Co., The

Neb., Omaha

Cudahy Packing Co.

N. J., Jersey City

Dixon Crucible Co., Joseph

N. Y., New York City

Arabol Mfg. Co., 100 William St.

Borne-Serymser Co., 80 South St.

N. Y., New York City

Kelly Graphite Mills, 534 W. 22d St.

National Gum & Mica Co., 59th St.
and 11th AveNew York & New Jersey Lubricant
Co., 165 Broadway

Sonneborn Sons, Inc., L., 262 Pearl St.

Standard Oil Co. of New York, 26
Broadway

Texas Co., 17 Battery Place

Wolverine Lubricants Co. of New
York, 80 Broad St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

Acheson Graphite Co

*Ohio, Cincinnati*Joslin-Schmidt Co., 3223 Spring Grove
AveMoore Oil Co., York and McLean
Aves.*Ohio, Toledo*

Sun Co

Pa., Philadelphia

Crew Levick Co.

Keystone Lubricating Co.

Philadelphia Grease Mfg. Co., 848-
850 S. Swanson St.*R. I., Providence*

Harris Oil Co., A. W., 326 S. Water St.

Green, Benzo*N. Y., Cook's Falls*

Beaverkill Color & Chemical Co., The

Green, Bitter Almond*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.

Green, Brilliant

N. Y., New York City
Cosmic Aniline Works, Inc., 8 W.
Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market
St.
W. Va., Huntington
Lamie Chemical Co.

Green, Chrome, C. P.

N. Y., New York City
Hellenic Chemical & Color Co., Inc.,
1 Cedar St.
N. Y., Glens Falls
Imperial Color Works, Inc.

Green, Direct

N. J., Bound Brook
Peerless Color Co., Inc.
N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248
Chestnut St.

Green, Gambine

Ohio, Sandusky
Hord Color Products Co., S. Columbus
Ave.

Green, Malachite

N. Y., New York City
Cosmic Aniline Works, Inc., 8 W.
Broadway
Hellenic Chemical & Color Co., Inc.,
1 Cedar St.
L & R. Organic Products Co., Inc.,
27 Thames St.
Pa., Philadelphia
Harmer Laboratories Co.
W. Va., Huntington
Lamie Chemical Co.

Green, Methylene

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market
St.

Green, Methyl-Stain

Ill., Chicago
Research Laboratory of Chicago, 467
E. Ontario St.

Green, Naphthol

N. Y., New York City
*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.

Green, Naphthol B.

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market
St.

Greens, Acid

N. Y., New York City
*Hellenic Chemical & Color Co., Inc.,
1 Cedar St.
W. Va., Huntington
Lamie Chemical Co.

Green Scales

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N.
2nd St.

Greens, Chrome Bottom

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248
Chestnut St.

Green, Victoria, Conc.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248
Chestnut St.

Green, Wool S.

N. Y., New York City
Organic Products Corp., 469 State St.

Green, Wool S. Swiss

N. Y., New York City
L & R Organic Products Co., Inc., 27
Thames St.

Guaiaicol

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William
St.
Heyden Chemical Works, 135 William
St.
Wis., Milwaukee
Newport Chemical Works

Guaiaicol Carbonate

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Research Laboratory of Chicago, 467
E. Ontario St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Gums (all kinds)

England, Manchester
*Willecocks & Co., Ltd., H. S., 5,
Beaver St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Ayer
Feculose Co. of America
Mo., St. Louis
Reardon Glue Mfg. Co.

Gums (all kinds)—cont.

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holli-
day Sts.

N. J., Passaic

*Wolf, Jacques & Co.

N. Y., New York City

Arabol Mfg. Co., 100 William St.

*Campbell & Co., John C.

*Cooper & Cooper, 309 Broadway
Edgertyn Aniline Corp., 118 William
St.

*Fuerst Bros. & Co., 2 Stone St.

Hellenic Chemical & Color Co., Inc.,
1 Cedar St.

*Innis, Speiden & Co., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich
St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip

National Gum & Mica Co., 59th St.
and 11th Ave.

*Salomon & Bro., L. A., 216 Pearl St.
Southern Oil & Chemical Co., 15 Park
Row

Gum, Arabic

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Passaic

*Wolf & Co., Jacques, 342 Lexington
Ave.

N. Y., New York City

Arabol Mfg. Co., 100 William St.

*Duche & Sons, T. M., 376 Greenwich
St.

Edgertyn Aniline Corp., 118 William
St.

*Fuller & Co., Ralph, 4 Rector St.

*Innis, Speiden & Co., 46 Cliff St.

McKesson & Robbins, Inc., 91 Fulton
St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip

National Gum & Mica Co., 59th St.
and 11th Ave.

*Salomon & Bro., L. A., 216 Pearl St.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Gum, Benzoin

N. Y., New York City

*Fuller & Co., Ralph L., 4 Rector St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip

Gum, Brazilian

N. Y., New York City

National Gum & Mica Co., 59th St.
and 11th Ave.

Gum, Brightwood

N. Y., New York City

National Gum & Mica Co., 59th St.
and 11th Ave.

Gum, British (*see also Dextrine*)

Md., Baltimore

Bloede Co., Victor G., Station "D,"
Caton Ave.

N. Y., New York City

Corn Products Refining Co., 17 Bat-
tery Place

National Gum & Mica Co., 59th St.
and 11th Ave.

Gum, Camphor

Cal., San Francisco

*Dill-Crossett, Inc., Postal Tele-
graph Bldg.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

*Baker & Bro., H. J., 81 Fulton St.

Suzuki & Co., 220 Broadway

*Takamine Commercial Corporation,
120 Broadway

Mass., Boston

American Camphor Refining Co., 14
Fulton St.

N. Y., New York City

*Barrett Co., 17 Battery Place

*Campbell, C. W., 11 Cliff St.

*Fuller & Co., Ralph L., 4 Rector St.

*Merek & Co., 45 Park Place

*Mitsui & Co., 25 Madison Ave.

National Aniline & Chemical Co., Inc.,
21 Burling Slip

*Pfizer & Co., Charles, 81 Maiden Lane

*Weymouth, Ralph W., 111 Broadway

Ohio, Cleveland

Smith Co., Werner G., Hird and
Detroit Sts.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Gum, Congo

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich
St.

National Gum & Mica Co., 59th St.
and 11th Ave.

Gum, Copal

Cal., San Francisco

Dill-Crossett, Inc., Postal Telegraph
Bldg.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Standard Asphalt & Rubber Co., 137
S. La Salle St.

N. Y., Brooklyn

Zobel & Co., E.

N. Y., New York City

*Fuller & Co., Ralph L., 4 Rector St.

*Klipstein & Co., A., 644 Greenwich St.

*Scheel, William H., 159 Maiden Lane

Pa., Philadelphia

Meyer & Sons, J., 480 Bourse Bldg.

Gum, Damar*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Fuller & Co., Ralph L., 4 Rector St.

*Katzembach & Bullock Co., Inc.,
William and John Sts.*Klipstein & Co., A., 644 Greenwich
St.*Pa., Philadelphia*Meyer & Sons, J., 480-482 Bourse
Bldg.**Gum, Gambier***N. Y., New York City*

*Kuller & Co., Ralph L., 4 Rector St.

*Klipstein & Co., A., 644 Greenwich
St.**Gum, Industrial***N. Y., New York City*Herrick-Voigt Chemical Corporation,
1 Liberty St.**Gum, Karaya***N. J., Passaic**Wolf & Co., Jacques, 342 Lexington
Ave**Gum, Kauri***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St

*N. Y., New York City*Edgertyn Aniline Corp., 118 William
St.*Klipstein & Co., A., 644 Greenwich
St.*Pa., Philadelphia*Meyer & Sons, J., 480-482 Bourse
Bldg.**Gum, Manila Copal***Pa., Philadelphia*

Meyer & Sons, J., 480 Bourse Bldg.

Gum, Mastic*N. Y., New York City*

*Fuller & Co., Ralph L., 4 Rector St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip**Gum, Myrrh***N. Y., New York City*

*Fuller & Co., Ralph L., 4 Rector St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip**Gum, Pontianak***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.*Pa., Philadelphia*Meyer & Sons, J., 480-482 Bourse
Bldg.**Gum, Red***N. Y., New York City**Chemical Importing & Mfg. Co., 90
West St.**Gum, Rosin***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Ohio, Cincinnati**Winkler & Bros. Co., Isaac, 804 First
National Bank Bldg.**Gum, Sandarac***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Fuller & Co., Ralph L., 4 Rector St.

*Klipstein & Co., A., 644 Greenwich
St.National Aniline & Chemical Co., Inc.,
21 Burling Slip**Gum, Senegal***N. Y., New York City*

*Fuller & Co., Ralph L., 4 Rector St.

*Klipstein & Co., A., 644 Greenwich
St.National Gum & Mica Co., 59th St.
and 11th Ave.**Gum, Shellac***Ill., Chicago*

Barrett & Co., M. L., 333 W. Lake St.

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Detroit

Berry Bros., Leib and Wright Sts.

N. Y., New York City

*Marx & Rawolle, 100 William St.

Gum, Textile Printing*N. J., Passaic*Wolf & Co., Jacques, 342 Lexington
Ave.**Gum, Textile, Stiffening***N. Y., New York City*Corn Products Refining Co., 17 Bat-
tery Place

*Fuller & Co., Ralph L., 4 Rector St.

National Aniline & Chemical Co., Inc.,
21 Burling SlipNational Gum & Mica Co., 59th St.
and 11th Ave.

Gum, Tragacanth*Ill., Chicago*

Barrett & Co., M. L., 219 Lake St.

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Jersey City

Seydel Mfg. Co., 86 Forrest St.

N. J., Passaic

*Wolf & Co., Jacques, 342 Lexington Ave.

N. Y., New York City

Arabol Mfg. Co., 100 William St.

Cooper & Co., Chas., 194 Worth St.

*Fuller & Co., Ralph L., 4 Rector St.

*Innis, Speiden & Co., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., Inc.,
21 Burling SlipNational Gum & Mica Co., 59th St.
and 11th Ave.*Pa., Hanover*

Acme Extract & Chemical Co.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Gum, Varnish (*see Gum, Copal*)**Gum, Victor***Md., Baltimore*

Bloede Co., Victor G., Caton Ave.

Gum, Wood Veneer*Md., Baltimore*

Bloede Co., Victor G., Caton Ave.

Gum, Zambesi*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Gum, Zanzibar*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

*Scheel, Wm. H., 159 Maiden Lane

Gums, Ester*Pa., Philadelphia*

Meyer & Sons, J.

Gums, Gualac*N. Y., New York City*National Aniline & Chemical Co., Inc.,
21 Burling Slip**Gymene***N. Y., New York City*

Industrial Chemical Co., 200 Fifth Ave

Gypsum (*see Calcium Sulphate*)**Haemateine***N. Y., New York City**Bischoff & Co., Inc., C., 451 Wash-
ington St.*Kuttroff, Pickhardt & Co., Inc., 128
Duane St.**Haematoxyline Crystals***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Haematoxyline, Dark***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Haematoxyline, Delafield***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Hardening Compound, Surface***Pa., Philadelphia*Houghton & Co., E. F., 240 Somerset
St.**Heliotropin***N. Y., New York City*

Bush & Co., W. J., 100 William St.

Florasynth Laboratories, Inc., 231
Pearl St.National Gum & Mica Co., 59th St.
and 11th Ave.**Helianthine***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Helio, Direct***R. I., Providence*Agawam Chemical Works, 10 Weybos-
set St.**Hematin Crystals***England, Manchester*

Robinson & Co., H. F., Newton Heath

*Willcocks & Co., Ltd., H. S., 5,
Beaver St.*N. J., Camden*Taylor, White Extracting Co., Cooper
River and Pine St.*N. Y., Glens Falls*

Imperial Dyewood Co., Inc.

N. Y., Long Island City

United States Dye Extracts Co., Inc.

Hematin Crystals—*cont.*

N. Y., New York City
 American Dyewood Co., 80 Maiden Lane
 Chemical Co. of America, 28 Platt St.
 Edgertyn Aniline Corp., 118 William St.
 Jamaica Dyewood & Chemical Co., 50 Church St.
 Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
 National Gum & Mica Co., 59th St. and 11th Ave.
 *Nitrate Agencies Co., 102 Pearl St.
 *Sloan & Russell, Inc., 132 Nassau St.
 *Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland
 Grasselli Chemical Co.

R. I., Providence
 Lewis, John D., 1209 Turks Head Bldg.
Scotland, Glasgow
 Barr, Ltd., James C., 27, Blythswood Square

Hematin Extract (*see Extract, Hematin*)

Hematin Liquid (*see Extract, Hematin*)

Hematin, Paste (*see also Extract, Hematine*)

England, Manchester
 *Willcocks & Co., Ltd., H. S., 5, Beaver St.
N. J., Camden
 Taylor, White Extracting Co., Cooper River and Pine St.
R. I., Providence
 Lewis, John D., 1209 Turks Head Bldg.

Hematin, Solid

N. J., Camden
 Taylor, White Extracting Co., Cooper River and Pine St.

Hexachlorethane

Mich., Midland
 Dow Chemical Co.

Hexamethylenamine

N. Y., New York City
 Edgertyn Aniline Corporation, 118 William St.
Ohio, Cleveland
 Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Hexamethylene

N. Y., New York City
 Miller, J. A., 233 Broadway

Hexamethylenetetramine

Mo., St. Louis
 Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
 Heyden Chemical Works, 135 William St.
 Hoffman-La Roche Chemical Works, 440 Washington St.
 Merck & Co., 45 Park Place
 Roessler & Hasslacher Chemical Co., 100 Maiden Lane
 *Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
 National Electrolytic Co.
Ohio, Cleveland
 Cleveland-Cliffs Iron Co.
Pa., Philadelphia
 Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Hexamethyl violet

Pa., Philadelphia
 Harmer Laboratories Co., 1704 Market St

Hydrastine

Ind., Indianapolis
 Lilly & Co., Eli, 224 E. McCarthy St.

Hydrazobenzene

R. I., Providence
 Agawam Chemical Works, 10 Wayboset St

Hydrochinone (*see Hydroquinone*)**Hydrogen**

Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
 National Ox-Hydric Co.
Mo., St. Louis
 *Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. J., Newark
 International Oxygen Co., 796 Frelinghuysen Ave
N. Y., New York City
 Air Reduction Sales Co., 120 Broadway
 International Oxygen Co., 115 Broadway
 Linde Air Products Co., Forty-Second St. Bldg.
 *Palo Co., 90 Maiden Lane
 Standard Oxygen Co., 216 E. 42d St.
Ohio, Cleveland
 Ohio Chemical & Mfg. Co., 1177 Marquette Road
Ohio, Wickliffe
 Clarke Chemical Co., St. Clair St.
Pa., Philadelphia
 Pennsylvania Salt Mfg. Co.

Hydrogen Dioxide, (*see Hydrogen Peroxide*)**Hydrogen Peroxide***Colo., Denver*

Chemical Products Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Detroit

Parke, Davis & Co.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., Long Island City

American Druggists Syndicate

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Cooper & Co., Charles, 194 Worth St.

McKesson & Robbins, 91 Fulton St.

Merck & Co., 45 Park Place

Oakland Chemical Co., 10 Astor Place

Roessler & Hasslacher Chemical Co., 100 William St.

*Wood, Inc., J. Early, 21 Platt St.

Pa., Philadelphia

Smith, Kline & French Co., 431 Arch St.

Hydrone*N. Y., New York City*

Roessler & Hasslacher Chemical Co., 100 William St.

Hydroquinone*England, London*

American Commerce Co., Ltd., The, 19 St. Bride St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St. 21 Burling Slip

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. J., Bound Brook

American Chemical Products Co.

N. J., Jersey City

Seydel Mfg. Co.

N. Y., Hastings-on-Hudson

*Zinsser & Co.

N. Y., New York City

Berlin Aniline Works, 213 Water St.

Cooper & Co., Charles, 194 Worth St.

Edgertyn Aniline Corp., 118 William St.

Eissing Chemical Co., 225 Fifth Ave. Marden, Orth & Hastings Co., 61 Broadway

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

*Wood, Inc., J. Early, 21 Platt St.

Hydrosulphite*N. Y., New York City*

Kuttroff, Pickhardt & Co., Inc., 126 Duane St.

Hydrosulphite Powder*N. Y., New York City*

Klipstein & Sons Co., E. C., 644 Greenwich St.

Hypernic Crystals*N. Y., New York City*

Jamaica Dyewood & Chemical Co., 50 Church St.

Hypernic, Extract (*see Extract Hypernic*)**Hypochlorite of Lime** (*see Calcium Hypochlorite, Bleach and Chloride of Lime*)**Hydrosulphite***N. J., Passaic*

Wolf, Jacques & Co., 342 Lexington Ave.

N. Y., New York City

Chemical Co. of America, 28 Platt St.

Ichthyнат*N. Y., New York City*

Heyden Chemical Works, 135 William St.

Ichthyol*N. Y., New York City*

Merck & Co., 45 Park Place

National Gum & Mica Co., 59th St. and 11th Ave

Takamine Laboratory, Inc.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Indigo*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

England, Manchester

*Willcocks & Co., Ltd., H. S., 5 Beaver St.

Mass., Boston

*Cronkhit & Co., L. W.

Levinstein, I. & Co.,

*United Indigo & Chemical Co., 176 Federal St.

Mich., Midland

Dow Chemical Co.

Indigo—cont.*N. Y., New York City**Aniline Dyes & Chemicals, Inc.,
Cedar and Washington Sts.

*Berlin Aniline Works, 213 Water St.

*Bischoff & Co., Inc., C., 451 Wash-
ington St.

*Freeman & Co., R. B., 96 Wall St.

*Huisling, Inc., Chas. L., 5 Platt St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Co., 61
BroadwayNational Gum & Mica Co., 59th St.
and 11th Ave.*Riker, J. L., & D. S., 80 Maiden Lane
Southern Oil & Chemical Co., 15 Park
Row*R. I., Providence*

*Arnold, Hoffman & Co., 55 Canal St.

Indigo, Synthetic*Mich., Midland*

Dow Chemical Co.

Indigo, Synthetic, 20 % Paste*Mich., Midland*

Dow Chemical Co.

Indigo, Synthetic, Powder*Mich., Midland*

Dow Chemical Co.

Indigotine*Mass., Boston*

Avery Chemical Co., 88 Broad St.

United Indigo & Chemical Co., 176
Federal St.*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Berlin Aniline Works, 213 Water St.

*Klipstein & Co., A., 644 Greenwich
St.**Indulin***England, Lancashire, Edensfield*

Sharp, Ltd., J. B. & W. R.

Mich., Midland

Dow Chemical Co.

*N. Y., Brooklyn*Zobel Color Works, Inc., 95-127 Ninth
St.*R. I., Providence*

Industrial Chemical Co.

**Infusorial Earth (see Earth, Infusor-
ial)****Inks***Cal., Los Angeles*

Pacific Chemical Co., 1421 N. Main St.

D. C., Washington

Lamb & Tilden, 725 13th St., N. W.

*Ill., Chicago*Sanford Mfg. Co., Congress and Peoria
Sts.*N. Y., New York City*

*Binney & Smith Co., 81 Fulton St.

Ohio, Cincinnati

Ault & Wiborg

Inks, Air Brush*N. Y., New York City**Bachmeier & Co., Inc., 438 W. 37th
St.**Inks, Lithographic***N. J., Jersey City*

Eagle Printing Ink Co., 205 Gates Ave.

*N. J., Newark*Jaenecke-Ault Co., Ave. B and Wright
St.**Inks, Printing***Ga., Savannah*

Southern Oil & Chemical Co.

N. J., Jersey City

Eagle Printing Ink Co., 265 Gates Ave.

*N. J., Newark*Jaenecke-Ault Co., Ave. B. and Wright
St.*N. Y., New York City*Middlesex Aniline Co., Inc., 149 Broad-
way**Intermediates (see also specific head-
ings)***Cal., West Berkeley*

California Aniline & Chemical Co.

Cataytic Chemical Co., 3d and Ban-
croft Sts.*Del., Wilmington*

DuPont de Nemours & Co., E. I.

*Ill., Chicago*Western Aniline Products Co., 1160
Old Colony Bldg.*Ill., Quincy*

Monroe Color & Chemical Co.

Mass., Boston

Atlantic Dyestuff Co., 88 Ames Bldg.

Merrimac Chemical Co., 41 Central St.

Mich., Holland

Holland Aniline Co.

Mich., Midland

Dow Chemical Co.

*Mo., St. Louis*Monsanto Chemical Works, 2nd St.
and LaFayette Ave.*N. J., Elizabeth*

Bayway Chemical Co., Bayway

Midvale Chemical Co.

N. J., Jersey City

Seydel Mfg. Co., 86 Forrest St.

Intermediates—cont.

- N. J., Malawan*
Synthetic Color Co.
- N. J., Metuchen*
Acme Dye & Chemical Co., Durham Ave.
- N. J., Newark*
Central Dyestuff & Chemical Co.
- N. Y., New York City*
*Allied Chemical Exchange, Inc., 95-97 Liberty St.
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Amalgamated Dyestuff & Chemical Work, Inc., 75 Hudson St.
American Aniline Products, Inc., 15 E. 12th St.
American Color Mfg. Co., 98 Park Place
American Synthetic Dyes, Inc., 61 Broad St.
Barrett Co., The, 17 Battery Place
Benzol Products Co., The, 25 Broad St.
Bound Brook Chemical Corp., 82 Beaver St.
Butterworth-Judson Corporation
Calco Chemical Co., 44th floor, Woolworth Bldg.
Chemical Co. of America, Inc., 28 Platt St.
Dye Products & Chemical Co., Inc., 200 Fifth Ave.
General Chemical Co., 25 Broad St.
*Hemingway, Inc., Frank L., 82 Beaver St.
Hooker Electrochemical Co., 40 Wall St.
*Klipstein & Sons Co., E. C., 644 Greenwich St.
L & R Organic Products Co., Inc., 27 Thames St.
Marden, Orth & Hastings Co., 61 Broadway
May & Co., Inc., Frank L., 99 John St.
Merek & Co., 45 Park Place
Metz & Co., H. A., 122 Hudson St.
Middlesex Aniline & Chemical Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
New York Color & Chemical Co., Inc., 212 Pearl St.
*Rector Chemical Co., Inc., 2 Rector St.
*Segal & Co., Inc., George H., 95 William St.
Semet-Solvay Co. of New York, 42d St. Bldg.
Wright Chemical Corporation, 38 Park Row
- N. Y., Schenectady*
Organic Products Corp.
- Ohio, Cincinnati*
Ault & Wiborg
- Ohio, Cleveland*
Sherwin-Williams Co.
- Ohio, Marietta*
Obex Co., The
- Ohio, Sandusky*
Hord Color Products Co., 424 E. Market St.
- Pa., Philadelphia*
Cambria Steel Co., Widener Bldg.
- R. I., Providence*
Agawan Chemical Works, 531 Grosvenor Bldg.
Industrial Chemical Co., P. O. Box 490
- Wash., Seattle*
West Coast Chemical Co., 6961 Woodlawn Ave.
- Wis., Milwaukee*
Newport Chemical Works, Inc., 1112 First National Bank Bldg.
- Iodide, Thymol**
- Mo., St. Louis*
Mallinckrodt Chemical Co., 3600 N. 2nd St.
- Iodine**
- Cal., San Francisco*
Rogers Chemical Co., R. R., 527-536 Commercial St.
- Ill., Chicago*
*Daigger & Co., A, 54 W. Kinzie St.
- Mich., Midland*
Dow Chemical Co.
- Mo., St. Louis*
Mallinckrodt Chemical Works, 3600 N. 2nd St.
- N. Y., New York City*
Cooper & Co., Charles, 194 Worth St.
Eimer & Amend, 205-211 Third Ave.
McKesson & Robbins, 91 Fulton St.
Merek & Co., 45 Park Place
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Squibb & Sons, E. R., 80 Beekman St.
Suziki & Co., S., 13 Park Row
- Pa., Easton*
Baker & Adamson Chemical Co.
- Pa., Philadelphia*
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Southern Oil & Chemical Co., 15 Park Row
- Iodine (Resublimed)**
- N. Y., New York City*
Pfizer & Co., Inc., Chas., 81 Maiden Lane
- Iodine Monochloride**
- Pa., Philadelphia*
Harmer Laboratories Co.

Iodine Trichloride

Pa., Philadelphia
Harmer Laboratories Co.

Iodoform

Colo., Pueblo
Norcross Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2d St.
N. Y., New York City
*Husking, Inc., Chas. L., 5 Platt St.
Merek & Co., 45 Park Place
Pfizer & Co., Inc., Chas., 81 Maiden
Lane
Southern Oil & Chemical Co., 15 Park
Row
Squibb, R. E., & Sons, 80 Beekman St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Iridium Chloride

N. J., Newark
American Platinum Works, 225-231
New Jersey R. R. Ave.

Iron Scale

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Iron, silvery

N. Y., New York City
*Canada Carbide Sales Co., Inc., 30
Church St.
*Fairbanks, Morse & Co., 30 Church
St

Jenner Stain

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market
St

Kaolin

Cal., Los Angeles
Pacific Mineral Products Co.
Del., Newark
Peach Kaolin Co.
Ga., Macon
*Georgia Kaolin Co.
Ga., Savannah
Savannah Kaolin Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Trenton
Golding Sons & Co., S.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
N. Y., Troy
Ostrander Fire Brick Co.
N. C., Dillsboro
Harris Clay Co.

Pa., Philadelphia
Paxson Co., J. W., 1022 N. Delaware
Ave.
Philadelphia Clay Co., 1316 Common-
wealth Ave.
Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Ketone, Michler's

N. Y., New York City
Chemical Co. of America, 176 Front St.

Ketones

Del., Wilmington
Hercules Powder Co., 10th and Market
Sts.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Florasynth Laboratories, Inc., 231
Pearl St.
*Hemingway, Inc., Frank, 115 Broad-
way
Industrial Chemical Co., Fifth Ave.
Bldg.
U. S. Industrial Chemical Co., 27 Wil-
liam St.
Pa., East Smethport
Norwich Chemical Co.

Khaki Olive, Direct

R. I., Providence
Agawam Chemical Works, 10 Weybos-
set St.

Kieselguhr

N. J., Lincoln
Atlas Mineral Products Co.

Koreon

N. Y., New York City
Mutual Chemical Co. of America, 55
John St.

Kryolith

N. J., Jersey City
Import Chemical Co., 162 First St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Lacmoid

Pa., Philadelphia
Harmer Laboratories Co.

Lacmoid, Alcohol Sol.

Ill., Chicago
Research Laboratory of Chicago, 467
E. Ontario St.

Lacmoid, Water Sol.

Ill., Chicago
Research Laboratory of Chicago, 467
E. Ontario St.

Lacquers*Del., Wilmington*

Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market
Sts.

Ill., Chicago

Redmanol Chemical Products Co., 636
W. 22d St.

Mass., Boston

Chemical Products Co., 93 Broad St.

N. J., Carlstadt

Franco-American Chemical Co.

N. Y., New York City

Celluloid Zapon Co., 200 Fifth Ave.
Cooper & Co., Charles, 194 Worth St.
General Bakelite Co., 2 Rector St.
Kalbfleisch Corp., 31 Union Square, W.
National Gum & Mica Co., 59th St. and
11th Ave.

Ohio, Cincinnati

Fries & Fries, 1501-13 W. 6th St.

Lacquers, Celluloid*Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

Lacquers, Cellulose Acetate*N. Y., Rosebank*

Austen, Perry, Mfg. Co.

Lacquers, Dip*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Lacquers, Gum*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Lacquers, Metal*Del., Wilmington*

Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market
Sts.

N. J., Wallington

Anderson Chemical Co.

Ohio, Cincinnati

Fries & Fries, 1501-13 W. 6th St.

Lacquers, Nitrocellulose*N. Y., Rosebank*

Austen, Perry, Mfg. Co.

Lacquers, Pyralin*Del., Wilmington*

Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market
Sts.

Lacquers, Spray*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Lacquers, Wood*Del., Wilmington*

Du Pont Chemical Works

Lakes (see also Dyestuffs)*N. J., Paterson*

Fine Colors Co., 21-29 McBride Ave.

N. Y., Glen Falls

Imperial Colors Works, Inc.

N. Y., New York City

Hellenic Chemical & Color Co., Inc.,
1 Cedar St.

Heller & Merz Co., 503 Hudson St.

Marden, Orth & Hastings Corp., Inc.,
61 Broadway.

Middlesex Aniline Co., Inc., 149 Broad-
way

National Aniline & Chemical Co.,
21 Burling Slip

National Gum & Mica Co., 59th St.
and 11th Ave.

*Waldo, E. M. & F., 11 Broadway

Zobel Color Works, Inc

Ohio, Cincinnati

Ault & Wiborg Co

Lakes, Blue*N. Y., New York City*

Hellenic Chemical & Color Co., Inc.,
427 W. 13th St.

N. Y., Glen Falls

Imperial Color Works, Inc., Warren St.

Lakes, Green*N. Y., New York City*

Hellenic Chemical & Color Co., Inc.,
427 W. 13th St.

Lakes, Lithol Red*N. Y., New York City*

Hellenic Chemical & Color Co., Inc.,
427 W. 13th St.

Lakes, Madder*N. Y., New York City*

Hellenic Chemical & Color Co., Inc.,
1 Cedar St.

Lakes, Process Red*N. Y., New York City*

Hellenic Chemical & Color Co., Inc.,
427 W. 13th St.

Lakes, Purple*N. Y., New York City*

Hellenic Chemical & Color Co., Inc.
427 W. 13th St.

Lakes, Red

N. Y., New York City
Hellenic Chemical & Color Co., Inc.
427 W. 13th St.

Lakes, Scarlet

N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.

Lakes, Violet

N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.

Lakes, Yellow

N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.
N. Y., New York City
Hellenic Chemical & Color Co., Inc.,
427 W. 13th St.

Lamp Black

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., 5th Ave Bldg.
National Gum & Mica Co., 59th St. and 11th Ave.
*Wilkes-Martin-Wilkes Co., 135 William St.
N. Y., Troy
Eddy's Son, Titus
Oregon, Portland
Portland Gas & Coke Co.

Lanolin

Cal., Los Angeles
Sircb Electrical & Testing Laboratories

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Hoffmann-LaRoche Chemical Works,
440 Washington St.
Marden, Orth & Hastings Co., Inc.,
61 Broadway

Larch, Extract (see Extract, Larch)**Lead (electrolytic)**

N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting, Refining and Mining Co., 120 Broadway
U. S. Smelting Co., Inc., 120 Broadway

Lead (Pig)

Cal., San Francisco
Selby Smelting & Lead Co., Merchants' Exchange Bldg.

Conn., New Haven

United Smelting & Aluminum Co., Inc.
Ill., Chicago

Eagle Picher Lead Co., 208 S. LaSalle St.

Great Western Smelting & Refining Co., 41st and Wallace Sts.

Raymond Lead Co., 940 W. Huron St.
Ind., East Chicago

U. S. Reduction Co.

Mass., Boston

Chadwick-Boston Lead Co., 162 Congress St.

Minn., St. Paul

Northwestern Shot & Lead Works

Mo., St. Louis

Hoyt Metal Co.

St. Louis Smelting & Refining Co., International Life Bldg.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

Columbia Smelting & Refining Works,
365 West St

Eagle Smelting & Refining Works,
Woolworth Bldg.

Hungerford Brass & Copper Co., U. T.,
80 LaFayette St.

Nassau Smelting & Refining Works,
Ltd., 605 W. 29th St.

National Lead Co., 111 Broadway

National Metals Co., Woolworth Bldg.

United Lead Co., 111 Broadway

United States Smelting, Refining & Mining Co., Inc., 120 Broadway

Lead (Sheet)

Ill., Chicago

Raymond Lead Co., 735 S. Washtenaw Ave.

Mass., Boston

United Lined Tube & Valve Co.

N. Y., New York City

National Lead Co.

United Lead Co., 111 Broadway

Lead Acetate

Cal., San Francisco

Selby Smelting & Lead Co., Merchants' Exchange Bldg.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

England, Stockport

Cornbrook Chemical Co., Ltd.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Ind., Greencastle

Greencastle Zinc & Lead Mining Co.

Md., Baltimore

Thomsen Chemical Co., Race and Winder Sts.

Mass., Boston

Merrimac Chemical Co., 33 Broad St.

Lead Acetate—cont.

Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2d St.

N. J., Jersey City
Interstate Chemical Co., 12 Bay View
Ave.

N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.

N. Y., New York City
*Bredt & Co., F., 240 Water St.
Cooper & Co., Chas., 194 Worth St.
Edgertyn Aniline Corp., 118 William
St.

General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24
State St.

*Klipstein & Co., A., 644 Greenwich
St.

Merck & Co., 45 Park Place
National Lead Co., 111 Broadway
Roessler & Hasslacher Co., 100 Wil-
liam St.

White Tar Co., 6 Cliff St.

Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co., 317
Electric Bldg.

Pa., Philadelphia
Lenning & Co., Inc., Chas.

R. I., Providence
*Lewis, John D.

Wis., Madison
Cleveland Mining Co.

Lead Antimonial

Cal., San Francisco
Selby Smelting & Lead Co., Merchants
Exchange Bldg.

Ill., Chicago
Great Western Smelting & Refining
Co., 41st and Wallace Sts.

Mass., Boston
Richards & Co., Inc., 200 Causeway St.

Mich., Detroit
Michigan Smelting & Refining Co.

N. Y., New York City
American Metal Co., Ltd., 61 Broad-
way

American Steel Co., 61 Broadway
*Beer, Sondheimer & Co., 61 Broadway
Eagle Smelting & Refining Works,
Woolworth Bldg.

Nassau Smelting & Refining Works,
607 W. 29th St.

United States Smelting, Refining &
Mining Co., Inc., 120 Broadway

*Seligmann, A., 165 Broadway

Pa., Philadelphia
Ajax Metal Co., 45 Richmond St.

Lead Arsenate

Colo., Grand Junction
Latimer Chemical Co.

Ill., Chicago
*Daigger & Co., 54 W. Kinzie St.

Mass., Boston
Merrimac Chemical Co., 33 Broad St.

Mass., Leominster
Danfourth Chemical Co., Willard St.

Mich., Detroit
Detroit White Lead Works

Mich., Grand Rapids
Imperial Chemical Co.

Mich., Midland
Dow Chemical Co.

Mo., St. Louis
Commercial Acid Co., 1906 Boatman's
Bank Bldg.

Lambert Chemical Co., Railway Ex-
change Bldg.

N. J., Camden
Meehling Bros. Mfg. Co.

N. J., Jersey City
Interstate Chemical Co., 667 Garfield
Ave.

N. Y., New York City
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William
St.

General Chemical Co., 25 Broad St.

*Hemingway, Inc., Frank, 115 Broad-
way

Pratt Co., B. G., 50 Church St.

*Nitrate Agencies Co., 102 Pearl St.
Vreeland Chemical Co., 50 Church St.

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Wis., Milwaukee
Corona Chemical Co.

Lead, Black (see Graphite)**Lead Borate**

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich
St.

Lead, Bordo

N. J., Jersey City

Interstate Chemical Co., 12-20 Bay-
view Ave.

Lead Carbonate, Basic

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City
National Lead Co., 111 Broadway

Lead, Chloride

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Lead Chromate (see *Chrome Yellow*)**Lead Hyposulphite**

N. Y., New York City
*Doggett, Stanley, John and Cliff Sts.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Lead Fluosilicate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Lead Linoleate

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Meyer & Sons, J., 480-482 Bourse Bldg.

Lead Nitrate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper, Chas., Co., 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St
Merek & Co., 45 Park Place
*Squibb & Sons, E. R., 80 Beekman St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.

Lead Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Oxide (see also *Litharge*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Eagle Picher Lead Co.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
*Coulston & Co., J. W., 80 Maiden Lane
Eagle Picher Lead Co., 100 William St.
Edgertyn Aniline Corp., 118 William St.
Independent Chemical Co., 72 Front St.
National Lead Co., 111 Broadway
Southern Oil & Chemical Co., 15 Park Row

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., The, Electric Bldg.

Pa., Pittsburgh
National Oil & Lead Co. of Pa., Commonwealth Bldg.

Lead Palmitate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Peroxide

N. Y., New York City
Chemical Co. of America, Inc., 176 Front St.
Cooper & Co., Charles, 194 Worth St.
*Sloan & Russell, Inc., 132 Nassau St.

Lead, Red

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Eagle-Picher Lead Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
National Lead Co., 111 Broadway

Lead Resinate

N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Lead Stearate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Sulphate

Ill., Chicago
Eagle Picher Lead Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
National Lead Co., 111 Broadway
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Lead, White (see *Lead Carbonate, Basic*)**Lead, White Sugar of** (see *Lead Acetate*)

Leather Dressings

N. Y., New York City
Apex Chemical Co., 63 Park Row

Leather Renovators •

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Solutions

Ill., Chicago
Van Schaack Bros. Chemical Works
N. J., Carlstadt
Franco-American Chemical Co.
N. J., Wallington
Anderson Chemical Co.

Leather Solutions, Artificial

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Solutions, Patent

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Solutions, Split

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Substitute Solutions

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Lecithin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
Mich., Detroit
Digestive Ferments Co., 240 Henry St.

Leishman Stain

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Leukonin

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Levuline

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Lime Acetate (*see Calcium Acetate*)**Lime Nitrate** (*see Calcium Nitrate*)**Lime Sulphur**

Mich., Midland
Dow Chemical Co.

Lime Sulphur Solution

Colo., Grand Junction
Latimer Chemical Co.
Mich., Midland
Dow Chemical Co.
N. J., Camden
Mechling Bros. Mfg. Co.

Limestone (*see also Calcium Carbonate, Native*)

Cal., San Francisco
Pacific Portland Cement Co.
 Md., Hagerstown
Security Cement & Lime Co.
Mo., St. Louis
Columbia Quarry Co.
N. Y., Syracuse
Solvay Process Co.
Ohio, Youngstown
Bessemer Limestone Co.
Pa., Philadelphia
Cambria Steel & Ordnance Co.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Tyone
American Lime & Stone Co.

Limestone, Ground

Cal., Highland
Thompson, R. S., & Son
N. Y., Syracuse
Solvay Process Co.

Linalyl Acetate

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Liquid Air

Canada, Quebec, Maisonneuve
L'Air Liquid Societé

Liquids, Bacteriological Cultures

N. Y., New York City
Fairchild Bros. & Foster, 74 Laight St.

Liquids, Bronzing

Del., Wilmington
Du Pont Chemical Works
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Liquor, Cresolis

Cal., Los Angeles
Bobrick Chemical Co., 111-117 S. Garey St.

Litharge (*see also Lead Oxide*)*Ill., Chicago*

Eagle Picher Lead Co., 208 S. La Salle St.

Mass., Boston

Chadwick-Boston Lead Co., 162 Congress St.

N. Y., Long Island City

Matheson Lead Co.

N. Y., New York City

Cooper & Co., Chas., 194 Worth St.

Devoe, F. W. & C. T. Reynolds Co., Fulton and William Sts.

Franco-American Chemical Co., Inc., 8 Gold St.

Longman & Martinez, 54 Maiden Lane

Merk & Co., 45 Park Place

National Lead Co., 111 Broadway

United Lead Co., 111 Broadway

Ohio, Cleveland

Grasselli Chemical Co.

Harshaw, Fuller & Goodwin Co.

Lithium Benzoate*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2nd St.

N. J., Jersey City

Seydel Mfg. Co., Forrest and Halliday Sts.

N. Y., New York City

Merk & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

Lithium Bromide*N. Y., New York City*Cooper & Co., Charles, 194 Worth St.
Merk & Co., 45 Park Place*Pa., Philadelphia*

Powers-Weightmann-Rosengarten Co.

W. Va., Malden

Dickinson & Co., J. Q.

Lithium Carbonate, U. S. P.*Mo., St. Louis*

Mallinckrodt Chemical Works 3600 N. Second St.

*N. Y., New York City*Cooper & Co., Charles, 194 Worth St.
Merk & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

Pa., Philadelphia

Foote Mineral Co., Inc., 111 N. 19th St.

Lithium Chloride*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2nd St.

*N. Y., New York City*Cooper & Co., Charles, 194 Worth St.
Merk & Co., 45 Park Place*Pa., Philadelphia*

Foote Mineral Co., Inc., 111 N. 19th St.

Lithium Citrate, U. S. P.*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

*N. Y., New York City*Cooper & Co., Charles, 194 Worth St.
Merk & Co., 45 Park Place**Lithium Fluoride***N. Y., Brooklyn*

Wiarda & Co., John C.

Lithium Iodide*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

*N. Y., New York City*Cooper & Co., Charles, 194 Worth St.
Merk & Co., 45 Park Place*Pa., Philadelphia*

Foote Mineral Co., Inc., 111 N. 19th St.

Powers-Weightmann-Rosengarten Co.

Lithium Ore*Pa., Philadelphia*

Foote Mineral Co., 120 N. 19th St.

Lithopone*Cal., San Francisco*

Dill-Crosett, Inc., 235 Pine St.

Braun-Knecht-Heimann Co., 584 Mission St.

Del., Newport

Krebs Pigment & Chemical Co.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Midland Chemical Co., 80 E. Jackson Blvd.

*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.

Mass., Boston

*King & Co., Inc., E. & F., 367 Atlantic Ave.

N. J., Jersey City

Import Chemical Co., 162 First St.

N. Y., Brooklyn

Wiarda & Co., Inc., John C., 273 Green St.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Butterworth-Judson Co., 61 Broadway
Edgertyn Aniline Corp., 118 William St.

Edison International Corporation

Lithopone—cont.*N. Y., New York City—cont.*

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Co., 61 Broadway

New Jersey Zinc Co., 160 Front St.

Southern Oil & Chemical Co., 15 Park Row

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co.

Sherwin-Williams Co.

Pa., Philadelphia

Beckton Chemical Co., 3500 Grays Ferry Road

Foote Mineral Co., Inc.

Graves Corp., N. Z., 22-24 S. Third St.

Mantau Chemical Co., 3500 Grays Ferry Road

Litmus, Purified Powder*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Logwood (*see Extracts, Logwood*)**Logwood Crystals***N. J., Camden*

Taylor, White Extracting Co., Cooper River and Pine St.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Jamaica Dyewood & Chemical Co., 50 Church St.

Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blythwood Square

Logwood, Solid (*see Extracts, Logwood*)**Logwood Sticks***N. Y., New York City*

Jamaica Dyewood & Chemical Co., 50 Church St.

Lubricants, Graphite (*see Graphite, Grease*)**Lunar Caustic, Sticks** (*see Silver Nitrate*)**Lye***Ohio, Cincinnati*

Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Madder*N. Y., New York City*

*Innis, Speiden & Co., 46 Cliff St.

Magnesite (*see Magnesium Carbonate*)**Magnesite Brick***Pa., Philadelphia*

Lavino & Co., E. J., Bullitt Bldg.

Magnesite, Crude.*N. Y., New York City*

*Doherr, Grimm & Co., 87 Gold St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Magnesia (*see also Magnesium Oxide*)*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Dunn & Kruse, 53 Park Row

Ohio, Lockland

Carey Co., Philip

Pa., Ambler

Keasbey & Mattison Co.

Magnesia, Calcined*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., 21 Burling Slip

Pa., Ambler

Keasbey & Mattison Co.

Magnesium (*Metal*)*Mass., Boston*

*Richards & Co., Inc., 200 Causeway St.

Mich., Midland

Dow Chemical Co.

N. Y., New York City

*Canada Carbide Sales Co., Inc., 30 Church St.

*Cooper & Co., Charles, 194 Worth St.

*Fairbanks, Morse & Co., 30 Church St.

*Fuerst Bros. & Co., 2 Stone St.

*General Chemical Co., 25 Broad St.

*Leavitt & Co., C. W., 30 Church St.

*McKesson & Robbins, Inc., 91 Fulton St.

*Merck & Co., 45 Park Place

Norton Laboratories, 296 Madison Ave.

*Roessler & Hasslacher Chemical Co., 100 William St.

N. Y., Niagara Falls

American Magnesium Corp.

N. Y., Schenectady

General Electric Co.

*Organic Products Corporation

Pa., Philadelphia

*Foote Mineral Co., Inc., 120 N. 19th St.

*Lavino & Co., E. J., Bullitt Bldg.

*Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Magnesium Arsenate

**Mich., Midland*
Dow Chemical Co.

Magnesium Bromate

Mich., Midland
Dow Chemical Co.

Magnesium Carbonate

Ill., Chicago
**Daigger & Co., A., 54 W. Kinzie St.*
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

Mich., Midland
Dow Chemical Co.

N. Y., Brooklyn
**Wiarda & Co., John C., 273 Greene St.*
N. Y., New York City

**Baker & Bro., H. J., 81 Fulton St.*
Edgertyn Aniline Corp., 118 William St.

**Huisking, Inc., Chas. L., 5 Platt St*
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.

National Aniline & Chemical Co., 21 Burling Slip

Pa., Ambler
Keasbey & Mattison Co.

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Wash., Valley, Stevens Co.
American Mineral Production Co.

Magnesium Chloride

England, Smiddy Bridge, near Rochdale
Dearhead Chemical Co.

Ill., Chicago
**Daigger & Co., A., 54 W. Kinzie St.*

Mich., Midland
Dow Chemical Co.

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

**Baker & Bro., H. J., 81 Fulton St.*
Cooper & Co., Charles, 194 Worth St.
**Doherr, Grimm & Co., 87 Gold St.*
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.

**Klipstein & Co., A., 644 Greenwich St.*

Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Norton Laboratories, Inc., 296 Madison Ave.

Roessler & Hasslacher Chemical Co., 100 William St.

Squibb & Sons, E. R., 80 Beekman St.
White Tar Co., 6 Cliff St.

**Wood, Inc., J. Early, 21 Platt St.*

Ohio, Pomeroy
Graclif Chemical Co.

Pa., Philadelphia
American Magnesium Chloride Co.
Foote Mineral Co., 120 N. 19th St.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

R. I., Providence
**Lewis, John D.*

Magnesium Fluosilicate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Md. Baltimore
Davison Chemical Co., Garrett Bldg.
N. Y., New York City
General Chemical Co., 25 Broad St.

Magnesium Glycerophosphate

Mo., St. Louis
Monsanto Chemical Works, 2d St. and La Fayette Ave.

Magnesium Oxide (see also

Magnesia)

Ill., Chicago
**Daigger & Co., A., 54 W. Kinzie St.*

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Norton Laboratories, 296 Madison Ave.

Pa., Ambler
Keasbey & Mattison Co.

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Magnesium Perborate

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Magnesium Powder

N. Y., Niagara Falls
American Magnesium Corp.

Magnesium Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.

Magnesium Sulphate

England, Smith Bridge near Rochdale
Dearhead Chemical Co.

Ga., Atlanta

Pratt Laboratories

Ill., Chicago

*Daigger & Co., A., 52-56 W. Kinzie St.
Victor Chemical Co., 343 S. Dearborn St.

Mich., Midland

Dow Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

*General Chemical Co., 25 Broad St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

*Marden, Orth & Hastings Co., 61 Broadway

*Merck & Co., 45 Park Place

*Roessler & Hasslacher Chemical Co., 100 William St.

*Squibb & Son, E. R., 80 Beekman St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co.

Harshaw, Fuller & Goodwin Co.

Ohio, Wickliffe

Clarke Chemical Co.

Pa., Philadelphia

*Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Synthetic Chemical Works, Inc.

Scotland, Glasgow

Barr, Ltd., James C.

Malachite, Green Crystalline

N. Y., Brooklyn

Williamsburg Chemical Co., Inc., 230 Morgan Ave.

Malachite, Green Crystals

N. Y., Brooklyn

Williamsburg Chemical Co., Inc., 230 Morgan Ave.

Malachite, Green Powder

N. Y., Brooklyn

Williamsburg Chemical Co., Inc., 230 Morgan Ave.

Maltose

Ohio, Cincinnati

American Diamalt Co., 419 Plum St.

Manganese

Cal., San Francisco

Dill-Crosett, Inc., 235 Pine St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.
Great Western Smelting & Refining Co., 41st and Wallace Sts.

Mass., Boston

Richards & Co., Inc.

Mich., Detroit

Michigan Smelting & Refining Co.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

Edgertyn Aniline Corp., 118 William St.

Metal & Thermit Corp., 120 Broadway

*Hardy, Charles, 50 Church St.

*Leavitt & Co., C. W., 30 Church St.

Nassau Smelting & Refining Works

*Philipp Bros., Inc., 29 Broadway

*Weymouth, Ralph W., 15-17 E. 40th St.

*Wood, Inc., J. Early, 21 Platt St.

Pa., Philadelphia

Ajax Metal Co., 46 Richmond St.

Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Carnegie Steel Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Manganese Acetate

Canada, Montreal, P. Q.

Canadian Electro Products Co., Ltd., 611 Power Bldg.

Manganese Borate

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Jersey City

Import Chemical Works, 162 First St.

N. Y., New York City

Cooper, Chas., & Co., 194 Worth St.

Edgertyn Aniline Corp., 118 William St.

*Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., Inc.
Pacific Coast Borax Co., 100 William St.

*Pfaltz & Bauer, Inc., 300 Pearl St.

Roessler & Hasslacher Chemical Co., 100 William St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

*Meyer & Sons, J., 480 Bourse Bldg.

Manganese Carbonate

N. Y., New York City

Cooper, Chas., & Co., 194 Worth St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Manganese Chloride

N. J., Jersey City
 Import Chemical Co., 162 First St.
N. Y., New York City
 Edgertyn Aniline Corp., 118 William St.
 *Klipstein & Co., A., 644 Greenwich St.
 Merck & Co., 45 Park Place
 *Pfaltz & Bauer, Inc., 300 Pearl St.
 Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
 Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
 Meyer & Sons, J., 480 Bourse Bldg.

Manganese Dioxide

Ark., Fort Smith
 Industrial Laboratories, Inc.
Cal., Los Angeles
 Pacific Mineral Products Co.
Colo., Denver
 U. S. Rare Minerals Co.
Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
N. J., Jersey City
 Import Chemical Co., 162 First St.
N. Y., Brooklyn
 Highfield, John W., 248 N. 10th St.
N. Y., New York City
 Edgertyn Aniline Corp., 118 William St.
 *Fuerst Bros. & Co., 2 Stone St.
 *Hardy, Chas., Inc., 50 Church St.
 *Harshaw, Fuller & Goodwin Co., 100 William St.
 Heyden Chemical Works, The
 *Klipstein & Co., A., 644 Greenwich St.
 Merck & Co., 45 Park Place
 *Pfaltz & Bauer, 300 Pearl St.
 Roessler & Hasslacher Chemical Co., 100 William St.
 *Scheel, W. H., 159 Maiden Lane
 Squibb & Sons, E. R., 80 Beekman St.
 *Tennant & Sons Co., C., 100 William St.
 *Weymouth, Ralph W., 111 Broadway
Pa., Philadelphia
 Foote Mineral Co., Inc., 107 N. 19th St.
 Lavino & Co., E. J., Bullitt Bldg.
 *Meyer & Sons, J., 480 Bourse Bldg.
 Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Wis., Madison
 Burgess Mineral Co.

Manganese Glycerophosphate

Mo., St. Louis
 Monsanto Chemical Works, 2d St. and LaFayette Ave.

Manganese Linoleate

N. J., Jersey City
 Import Chemical Co., 162 First St.
N. Y., New York City
 *Klipstein & Co., A., 644 Greenwich St.
 *Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
 Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
 Meyer & Sons, J., 480 Bourse Bldg.

Manganese Monochrome

N. Y., New York City
 Innis, Speiden & Co., Inc.

Manganese Oleate

N. J., Harrison
 National Oil Products Co., Essex and First Sts.

Manganese Oxide, (see Manganese Dioxide)**Manganese Peroxide (see Manganese Dioxide)****Manganese Peptonate**

N. Y., New York City
 Lehn & Fink, Inc., 120 William St.

Manganese, Recovered

Ill., La Salle
 Carus Chemical Co.
N. J., Jersey City
 Import Chemical Co., 162 First St.

Manganese Resinate

Colo., Denver
 U. S. Rare Minerals Co.
Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
N. J., Harrison
 National Oil Products Co., Essex and First Sts.
N. J., Jersey City
 Import Chemical Co., 162 First St.
N. Y., New York City
 Edgertyn Aniline Corp., 118 William St.
 Franco-American Chemical Co., 8 Gold St.
 *Sloan & Russell, Inc., 132 Nassau St.

Manganese Sulphate

Ark., Fort Smith
 Industrial Laboratories, Inc.
N. J., Jersey City
 Import Chemical Co., 162 First St.

Manganese Sulphate—*cont.*

- N. Y., New York City*
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place.
- Ohio, Cleveland*
Harshaw, Fuller & Goodwin Co.
- Pa., Philadelphia*
*Meyer & Sons J., 480 Bourse Bldg.

Maroon, Direct

- R. I., Providence*
Agawam Chemical Works, 10 Weybosset St.

Mastic, Acid Proof

- Pa., Philadelphia*
Barber Asphalt Paving Co., Land Title Bldg.

Menthol

- N. Y., New York City*
Edgertyn Aniline Corp., 118 William St.
Mitsui & Co., Ltd
National Aniline & Chemical Co., Inc., 21 Burling Slip
Suzuki & Co., 220 Broadway

Merbene, Oil of

- N. J., Ridgefield Park*
British-American Chemical Co., Inc.

Mercuric Bisulphate, Tech.

- N. Y., New York City*
Cooper & Co., Charles, 194 Worth St.

Mercuric Chloride

- Ill., Chicago*
*Daigger & Co., A., 54 W. Kinzie St.
- Mo., St. Louis*
Mallinckrodt Chemical Works, 3600 N. 2d St.
- N. Y., New York City*
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square, W.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Pfizer & Co., Inc., Chas., 81 Maiden Lane
*Rockhill & Vietor, 22 Cliff St.
Squibb & Sons, E. R., 80 Beekman St.

Ohio, Columbus

- *Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

- Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Mercuric Oxide

- Can., Shawinigan Falls, Quebec*
Canadian Electro Products Co., Ltd., Office, Power Bldg., Montreal
- Mo., St. Louis*
Mallinckrodt Chemical Works, 3600 N. 2d St.
- N. Y., New York City*
*Canada Carbide Sales Co., Inc., 30 Church St.
*Fairbanks, Morse & Co., 30 Church St.
- Pa., Philadelphia*
Powers-Weightman-Rosengarten Co.

Mercury

- Colo., Denver*
Mine & Smelter Supply Co.
- England, London, E. C. 3*
Berk & Co., Ltd., 1 Fenchurch Ave.
- Ill., Chicago*
Daigger & Co., A., 52-56 W. Kinzie St.
- N. Y., New York City*
*Beer, Sondheim & Co., 61 Broadway
*Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Haas Bros., 27 William St.
*Ketchum & Co., 65 Fulton St.
*Kley, Inc., 39 Cortlandt St.
*Lathrop & Co., H. R., 200 Water St.
*McKesson & Robbins, Inc., 91 Fulton St.
Southern Oil & Chemical Co., 15 Park Row
- Pa., Easton*
Baker & Adamson Chemical Co.
- Pa., Philadelphia*
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Mercury, C. P.

- Del., Milford*
Caulk Co., The L. D.
- N. Y., New York City*
Consolidated Dental Mfg. Co., 134 Washington Place

Merrillite

- Cal., San Francisco*
Merrill Metallurgical Co., 121 Second St.

Mesothorium Salts

- N. Y., New York City*
Radium Luminous Material Corporation, 55 Liberty St.

Metals (*see also Specific Headings*)*Cal., San Francisco*Pacific Coast Steel Co., Rialto Bldg.
Selby Smelting & Lead Co., Mechanics'
Exchange Bldg.*Colo., Denver*

Colorado Fuel & Iron Co.

*Conn., Bridgeport*American Tube & Stamping Co.
Bridgeport Brass Co.*Ill., Chicago*Great Western Smelting & Refining
Co., 41st and Wallace Sts.Illinois Smelting & Refining Co., 410
N. Peoria St.Illinois Steel Co., 208 S. La Salle St.
Inland Steel Co., First National Bank
Bldg.*Ind., East Chicago*

United States Reduction Co.

*Mass., Boston*U. S. Smelting, Refining & Mining
Co., 55 Congress St.*Mich., Detroit*Michigan Copper & Brass Co., 1611
Jefferson Ave. W.Michigan Smelting & Refining Co.,
1703 Jos. Campau St.*N. J., Chrome*

United States Metals Refining Co.

N. J., Perth Amboy

Raritan Copper Works

*N. Y., Brooklyn*Atlantic Smelting & Refining Co., 36-
42 Delevan St.*N. Y., New York City*American Metal Co., Ltd., 61 Broad-
wayAmerican Smelting & Refining Co.,
120 BroadwayBeer, Sondheimer & Co., Inc., 42
BroadwayDrakenfeld & Co., Inc., B. F., 50 Mur-
ray St.Eagle Smelting & Refining Works,
Woolworth Bldg.Nassau Smelting & Refining Works,
605 W. 29th St.United States Metals Refining Co.,
120 BroadwayUnited States Smelting Co., 120 Broad-
way*Ohio, Youngstown*

Brier Hill Steel Co.

Republic Iron & Steel Co.

Youngstown Sheet & Tube Co.

Pa., Philadelphia

Cambria Steel Co., Widener Bldg.

Pa., Pittsburgh

Carnegie Steel Co., Carnegie Bldg.

Jones & Laughlin Steel Co., 3d Ave.
and Ross St.Pittsburgh Steel Co., Union Arcade
Bldg.*Tenn., Ducktown*

Ducktown Sulphur, Copper & Iron Co.

Wash., Tacoma

Tacoma Smelting Co.

Methyl Acetate*Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

Metal, Acid Proof*N. Y., Buffalo*Buffalo Foundry & Machine Co., 43
Winchester Ave.*N. Y., New York City*

Duriron Castings Co.

Pa., Philadelphia

Cambria Steel Co., Widener Bldg.

*Pa., Pittsburgh*Keystone Bronze Co., 39th and Alle-
gheny Valley RailroadLawrenceville Bronze Co., 3046 Penn-
sylvania Ave.Vanadium Metals Co., Forbes and
Meyran Sts.

Wayne Brass Foundry, 4635 Butler St.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Metal, Acid Resistant*N. Y., New York City*

United Lead Co., 111 Broadway

Pa., Philadelphia

Ajax Metal Co., 46 Richmond St.

Metanitrilaniline*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

*Drug & Dyestuff Corp., 120 Broadway

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Metanitroparatoluidine***N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Edgertyn Aniline Corp., 118 William
St.**Metaphenylenediamine***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Quincy

Monroe Color & Chemical Co.

N. Y., New York City

Chemical Co. of America, 176 Front St.

Edgertyn Aniline Corp., 118 William
St.*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc.,
244 Madison Ave.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.*Tenn., Kingsport*

Federal Dyestuff & Chemical Corp.

Metatoluylenediamine*Del., Wilmington*

Du Pont Chemical Works

N. Y., New York City

Chemical Co. of America, 176 Front St.

*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.Edgertyn Aniline Corp., 118 William
St.*Klipstein & Co., A., 644 Greenwich
St.National Aniline & Chemical Co., Inc.,
244 Madison Ave.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.*Tenn., Kingsport*

Federal Dyestuffs & Chemical Corp.

Methyl Alcohol (*see Alcohol,*
Methyl)**Methyl Anthranilate***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Bush & Co., W. J., 100 William St.

Compagnie, Morana, 184 Fifth Ave.

*Fritzsche Bros., 82 Beekman St.

Gross & Co., Geo. V., 30 Old Slip St.

*Van Dyk & Co., 6 Platt St.

Methyl Benzoate*N. J., Jersey City*Seydel Mfg. Co., Forrest and Haillday
Sts.**Methyl Iodide***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Methyl Oxyhydrate***N. Y., New York City*Florasynth Laboratories, Inc., 231
Pearl St.**Methyl Salicylate***Mich., Midland*

Dow Chemical Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Heyden Chemical Works, 135 William
St.

Merch & Co., 45 Park Place

Methyl Sulphate, Di*N. Y., New York City*Chemical Co. of America, Inc., 176
Front St.**Mica***N. Y., New York City**Diamond' Drill Carbon Co., 53-63
Park Row*Weymouth, Ralph W., 111 Broadway
Pa., Philadelphia

Lavino & Co., E. J., Bullitt Bldg.

Mica, Brazilian*N. Y., New York City**Diamond Drill Carbon Co., 53-63
Park Row**Mica, Electrical***Mo., St. Louis*

Dielectric Mfg Co

Minerals, Rare*Cal., Los Angeles*

Calm, C. E., California Club

Colo., Denver

U. S. Rare Minerals Co.

Colo., Montrose

Willmarth, O. Barlow

N. Y., New York City

*Leavitt & Co., C. W.

Pa., Philadelphia

Foote Mineral Co., Inc., 120 N. 19th St.

Pennsylvania Salt Mfg. Co.

Lavino & Co., C. J., Bullitt Bldg.

Mineral Fillers*Ill., Chicago**Stresen-Reuter & Hancock, Inc., 1501
S. Peoria St.**Mineral Wool** (*see Asbestos*)**Moellons***N. J., Harrison*National Oil Products Co., Essex and
First Sts*N. Y., New York City*Marden, Orth & Hastings Corp., 61
Broadway**Molybdenates***Cal., Los Angeles*

Calm, C. E., California Club

Canada, Ontario, Orillia

*International Molybdenum Co., Ltd.

N. Y., New York City

*Hardy, Charles, 50 Church St.

*Philipp Bros., Inc., 29 Broadway

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Molybdenite (*see Molybdenum Sulfide*)

Molybdenum, Metal

Ill., North Chicago
Pfanstiehl Co., Inc.
N. Y., Schenectady
Organic Products Corporation
N. Y., New York City
American Smelting & Refining Co.,
120 Broadway

Molybdenum, Metal (Rod)

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Molybdenum, Metal (Wire)

N. Y., Port Chester
Mallory & Co., Inc., P. R.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Molybdenum Sulfide

N. Y., New York City
*Weymouth, Ralph W., 15-17 E. 40th St.
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St

Monazite Ore

N. Y., New York City
*Weymouth, Ralph W., 111 Broadway
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St

Monobrombenzene

(see *Brombenzene*)

Monochlorbenzene

(see *Chlorbenzene*)

Monoethylaniline (see *Ethylaniline*)**Morphine, Diacetyl Alkaloid**

Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2nd St.

Morphine Sulphate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2d St.

Moss, Sea

N. Y., New York City
Innis, Speiden & Co., 46 Cliff St.

Muriatic Acid (see *Acid, Hydrochloric*)**Musk, Artificial**

N. J., Bayonne
Standard Chemical Co., W. 5th St.

Myrabolams

Mass., Boston
Montgomery & Co., W. L., 146 Summer St.
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Downes & Co., Inc., 102 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Naphtha

Ala., Birmingham
Tennessee Coal, Iron & R. R. Co.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co. A., 54 W. Kinzie St.
Md., Baltimore
Interocean Oil Co.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
Barrett Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St
Interocean Oil Co., 90 West St.
New Jersey Products, Inc., 165 Broadway
Texas Co., 17 Battery Place
United States Asphalt Refining Co.
Zobel Co., Inc., Ernst, 38 Water St.

Naphtha, Refined Solvent

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel & Ordnance Co., Widener Bldg.

Naphtha, Solvent

Conn., New Haven
New Haven Gas Light Co., 80 Crown St
Del., Wilmington
Du Pont Chemical Works
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Elizabeth
Bayway Chemical Co.
N. Y., Buffalo
Lackawanna Steel Co.
N. Y., New York City
Aetna Explosive Co., Inc., 120 Broadway
Barrett Co., 17 Battery Place

Naphtha, Solvent—cont.*N. Y., New York City—cont.*

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Co., 61 Broadway

*New Jersey Products, Inc., 165 Broadway

*Williamson & Co., 120 Broadway

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Youngstown

Youngstown Sheet & Tube Co.

Pa., Carnegie

Aetna Chemical Co.

Pa., Philadelphia

Midvale Steel Co.

Pa., South Bethlehem

Bethlehem Steel Co.

Naphtha, Solvent, Crude*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

Lewis Mfg. Co., F. J., 2500 S. Robey St.

N. Y., Buffalo

Lackawanna Steel Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Pa., Philadelphia

Cambria Steel Co., Widener Bldg.

Midvale Steel & Ordnance Co. Widener Bldg.

Naphtha, Solvent, Heavy*Ind., Indianapolis*

Citizens Gas Co., Majestic Bldg.

Naphthalene*Ala., Birmingham*

Gulf States Steel Co., Brown-Marx Bldg.

Tennessee, Coal, Iron & R. R. Co.

Ala., Woodward

Woodward Iron Co.

Colo., Denver

Colorado Fuel & Iron Co., Boston Bldg.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

England, Darlington

Parkin, Nes & Co., Quebec St.

Ill., Aurora

Coal Products Mfg. Co.

Ill., Chicago

American Tar Products Co., 208 S. La Salle St.

By-Product's Coke Corp.

*Daigger & Co., A., 54 W. Kinzie St.

Illinois Steel Co., 208 S. LaSalle St.

Inland Steel Co., First National Bank Bldg.

Ill., Madison

Kettle River Co.

Ill., Waukegan

North Shore Gas Co.

Ind., Indianapolis

Citizens Gas Co., Majestic Bldg.

Ind., Linton

Linton Gas Co.

Ind., Muncie

Central Indiana Gas Co.

Ind., Terre Haute

Indiana Coke & Gas Co.

Mass., Boston

Cabot, Inc., Samuel, 141 Milk St.

New England Fuel & Trans. Co., 111 Devonshire St.

Mich., Wyndotte

Michigan Alkali Co.

Minn., Duluth

Minnesota Steel Co., Morgan Park Station

Minn., St. Paul

Minnesota By-Product Coke Co.

Minn., West Duluth

Zenith Furnace Co.

Mo., St. Louis

Laclede Gas Light Co., 1017 Olive St.

N. J., Elizabeth

Bayway Chemical Co.

N. J., Jersey City

Seaboard By-Product Coke Co.

N. J., Newark

Camden Coke Co., Broad and Bank Sts.

N. Y., Buffalo

Buffalo Union Furnace Co.

Lackawanna Steel Co.

N. Y., Lackawanna

Lackawanna Steel Co.

N. Y., New York City

Barrett Co., The, 17 Battery Place

Edgertyn Aniline Corp., 118 William St.

Edison International Corporation, 165 Broadway

Marden, Orth & Hastings Corp., 61 Broadway

National Aniline & Chemical Co., Inc., 21 Burling Slip

*New Jersey Products, Inc., 165 Broadway

Niagara Coke Corp., 6 Church St.

*Nitrate Agencies Co., 102 Pearl St.

Rector Chemical Co., 2 Rector St.

Roessler & Hasslacher Chemical Co., 100 William St.

Texas Co., 17 Battery Place

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Cleveland

American Steel & Wire Co., Western Reserve Bldg.

Dover By-Product Coke Co., Leader-News Bldg.

Naphthalene—cont.

- Ohio, Cleveland—cont.*
 Sherwin-Williams Co.
 Toledo Furnace Co., Western Reserve Bldg.
 United Furnace Co., Western Reserve Bldg.
- Ohio, Cincinnati*
 Chatfield Mfg. Co., 3d and Plum Sts.
- Ohio, Hamilton*
 Hamilton-Otto Coke Co.
- Ohio, Sandusky*
 Hard Color Products Co.
- Ohio, Steubenville*
 La Belle Iron Works
- Ohio, Youngstown*
 Brier Hill Steel Co.
 Republic Iron & Steel Co.
 Youngstown Sheet & Tube Co.
- Pa., Bethlehem*
 Bethlehem Steel Co.
- Pa., Carnegie*
 Aetna Chemical Co.
- Pa., Chester*
 Philadelphia Suburban Gas & Electric Co.
- Pa., McKeesport*
 Allegheny By-Product Coke Co.
- Pa., Philadelphia*
 Cambria Steel Co., Widener Bldg.
 Harmer Laboratories Co., 1704 Market St.
 Midvale Steel Co., Widener Bldg.
 Smith, Kline & French Co., 431 Arch St.
- Pa., Pittsburgh*
 Carnegie Steel Co.
 National Tube Co., Frick Bldg.
- Pa., South Bethlehem*
 Bethlehem Steel Co.
- Tenn., Chattanooga*
 Chattanooga Gas & Coal Products Co., James Bldg.
- Wash., Seattle*
 Seattle Lighting Co., 360 Stuart Bldg.
- Wis., Milwaukee*
 Milwaukee Coke & Gas Co.
 Northwestern Iron Co., First National Bank Bldg.

Naphthalene (Balls)

- Cal., San Francisco*
 Braun-Knecht-Heimann Co., 384 Mission St.
- England, London*
 *Dexters, Ltd., 362 City Road
- Ill., Chicago*
 *Daigger & Co., A., 54 W. Kinzie St.
 Lewis Mfg. Co., F. J., 2500 S. Robey St.
- N. Y., New York City*
 *Klipstein & Co., A., 644 Greenwich St.

Naphthalene (Flake)

- England, London*
 *Dexters, Ltd., 362 City Road
- Del., Wilmington*
 Du Pont de Nemours & Co., E. I.
- Ill., Chicago*
 *Daigger & Co., A., 54 W. Kinzie St.
 Lewis Mfg. Co., F. J., 2500 S. Robey St.
- Ind., Indianapolis*
 Republic Creosoting Co., Merchants Bank Bldg.
- Mo., St. Louis*
 Lambert Chemical Co.
- N. Y., Kingston*
 Nitrated Chemicals Co.
- N. Y., New York City*
 *Alexander & Co., Inc., C. S., 61 Broadway
 Barrett Co., 17 Battery Place
 Edison International Corporation, 165 Broadway
 *Klipstein & Co., A., 644 Greenwich St.
 New Jersey Products, Inc., 165 Broadway
- *Nitrate Agencies Co., 102 Pearl St.
 *Rector Chemical Co., Inc., 2 Rector St.
- Pa., Johnstown*
 Union Chemical & Refining Co., Lutheran Bldg.

Naphthalene, Dinitro

- N. Y., Kingston*
 Nitrated Chemicals Co.

Naphthol, Alpha

- N. J., Newark*
 Central Dyestuff & Chemical Co., Plum Pt. Lane
- N. Y., Kingston*
 Nitrated Chemicals Co.
- N. Y., New York City*
 *Klipstein & Co., A., 644 Greenwich St.
 Mardon, Orth & Hastings Co., 61 Broadway

Naphthol, Alpha, Crude

- Ohio, Sandusky*
 Hord Color Products Co., The

Naphthol, Alpha, Distilled

- Ohio, Sandusky*
 Hord Color Products Co., The

Naphthol, Beta

- England, Manchester*
 *Willcocks & Co., Ltd., H. S., 5, Beaver St.
- Mo., St. Louis*
 Mallinckrodt Chemical Works

Naphthol, Beta—*cont.*

- N. J., Bound Brook*
Calco Chemical Co.
- N. J., Newark*
Central Dyestuff & Chemical Co.,
Plum Pt. Lane
- N. Y., Brooklyn*
Bristol-Myers Co., 281 Greene Ave.
- N. Y., Hastings-on-Hudson*
*Zinsser & Co.
- N. Y., Kingston*
Nitrated Chemicals Co.
- N. Y., New York City*
*Alexander & Co., Inc., C. S., 61
Broadway
Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.
Berlin Aniline Works, 213 Water St.
Chemical Co. of America, 28 Platt
St.
Heller & Merz Co., 505 Hudson St.
*Heminway, Inc., Frank, 115 Broad-
way
Independent Chemical Co., 72 Front
St.
Kalle Color & Chemical Co., 530 Canal
St.
*Klipstein & Co., A., 644 Greenwich
St.
Marden, Orth Hasting Corp'n., 61
Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc.,
21 Burling Slip
Rector Chemical Co., Inc., 2 Rector St.
Southern Oil & Chemical Co., 15 Park
Row
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
- N. Y., Schenectady*
Organic Products Corporation
- N. Y., Wappingers Falls*
Standard Aniline Products, Inc.
- Ohio, Cleveland*
Sherwin-Williams Co.
- Pa., Philadelphia*
Harmer Laboratories Co., 1704 Mar-
ket St.
Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Naphthol Benzoate, Beta

- N. Y., New York City*
Florasynth Laboratories, Inc., 231
Pearl St.
Organic Products Corp., 469 State St.

Naphthylamin, Alpha

- N. Y., New York City*
Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.
Barrett Co., 17 Battery Pl.
Chemical Co. of America, 28 Platt St.

*Klipstein & Co., A., 644 Greenwich
St.

*Kuttruff, Pickhardt & Co., Inc., 128
Duane St.

Marden, Orth, Hasting Corp'n, 61
Broadway

*Williamson & Co., 120 Broadway
Pa., Philadelphia

Harmer Laboratories Co., 1704 Market
St.

Wis., Milwaukee

Newport Chemical Works, Inc., 1112
First National Bank Bldg.

**Naphthylamin, Alpha, Hydro-
chloride**

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Pa., Philadelphia

Harmer Laboratories, 1704 Market St.

Naphthylamine, Alpha

Del., Wilmington

Du Pont de Nemours & Co., E. I.

N. Y., Kingston

Nitrated Chemicals Co.

N. Y., New York City

Edgertyn Aniline Corp., 118 William
St.

Naphthylamine, Beta

Cal., San Francisco

California Aniline & Chemical Co.,
33 Clementina St.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Marden, Orth Hasting Corp'n, 61
Broadway

Pa., Philadelphia

Harmer Laboratories, 1704 Market St.

Naphthylamine, Black D

Wis., Milwaukee

Newport Chemical Works, Inc., 1112
First National Bank Bldg.

Naphthyl Salicylate, Beta

N. Y., New York City

Organic Products Corp., 469 State St.

Nickel

Conn., New Haven

United Smelting & Aluminum Co.,
Inc.

Conn., Springdale

Stamford Rolling Mills Co., Inc.

Ill., Chicago

Illinois Smelting & Refining Co., 410
N. Peoria St.

Nickel—cont.*Mich., Detroit*Michigan Smelting & Refining Co.,
1703 Jos. Campau Ave.*Mo., St. Louis*Gilbert & Sons, Brass Foundry, A.,
4015 Forest Park Blvd.*N. J., Harrison*

Driver, Harris Co.

N. J., New Brunswick

United States Nickel Co.

N. Y., Brooklyn

*Wiarda & Co., John C.

*N. Y., New York City*American Metal Co., Ltd., 61 Broad-
wayAmerican Smelting, Refining & Min-
ing Co., 120 Broadway

Cooper & Co., Charles, 194 Worth St.

Drakenfeld & Co., Inc., B. F., 50 Mur-
ray St.

Imex Corporation, 25 Beaver St.

International Nickel Co., 43 Exchange
PlaceNassau Smelting & Refining Works,
Ltd*Pa., Philadelphia*

Cambria Steel Co., Widener Bldg.

Nickel Ammonium Sulphate*N. Y., New York City*

*Fuerst Bros. & Co., 2 Stone St.

Squibb & Sons, E. R., 80 Beekman St.

Nickel Carbonate*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Nickel Chloride*N. Y., Brooklyn*

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Fuerst Bros. & Co., 2 Stone St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

Nickel Formate*N. Y., Syracuse*Rosebrugh Chemical Corporation, 1618
N. Salina St.**Nickel Oxide***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Cooper, Chas. & Co., 194 Worth St.

*Fuerst Bros. & Co., 2 Stone St.

*Roessler & Hasslacher Chemical Co.,
100 William St.*Ohio, Cleveland*Harshaw, Fuller & Goodwin Co., Elec-
tric Bldg.*Pa., Easton*

*Baker & Adamson Chemical Co.

Nickel Oxide, Green, Pure*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Nickel Sulphate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Perth Amboy

Raritan Copper Works

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Eimer & Amend, Third Ave., 18th
to 19th Sts.

*Fuerst Bros. & Co., 2 Stone St.

New Jersey Products, Inc., 165 Broad-
way

Philipp Bros., Inc., 29 Broadway

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Nigrosines*England, Lancashire, Edenfield*

Sharp, Ltd., J. B. & W. R.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Bound Brook

Calco Chemical Co.

*N. Y., Brooklyn*Zobel Color Works, Inc., 95-127 Ninth
St.*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.Edgertyn Aniline Corp., 118 William
St.Empire Chemical Co., 149 Broadway
Industrial Chemical Co., 5th Ave.
Bldg.*Kuttruff, Piekhardt & Co., Inc., 128
Duane St.L. & R. Organic Products Co., Inc.,
27 Thames St.Marden, Orth & Hastings Co., 61
BroadwayNational Aniline & Chemical Co., Inc.,
21 Burling ShpNational Gum & Mica Co., 59th St.
& 11th Ave.*Pa., Philadelphia*Harner Laboratories Co., 1704 Market
St.

Nitraniline, Meta*Mass., Boston*

Atlantic Dyestuff Co., 88 Ames Bldg.

Nitraniline, Ortho.*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Nitraniline, Para***Cal., San Francisco*California Aniline & Chemical Co., 33
Clementina St.*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.*N. J., Bound Brook*

Calco Chemical Co.

N. J., Ridgefield Park

British-American Chemical Co., Inc.

N. Y., Kingston

Nitrated Chemical Co.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Berlin Aniline Works, 213 Water St.

Chemical Co. of America, 28 Platt St.

Edgertyn Aniline Corp., 118 William
St.Klipstein & Sons Co., E. C., 644 Green-
wich St.Kuttroff, Pickhardt & Co., Inc., 128
Duane St.Marden, Orth & Hastings Corp'n., 61
BroadwayNational Aniline & Chemical Co., Inc.,
21 Burling Slip

Rector Chemical Co., Inc., 2 Rector St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Wappingers Falls

Standard Aniline Products, Inc.

Ohio, Cleveland

Sherwin-Williams Co.

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Nitre Cake***Colo., Denver*Western Chemical Mfg. Co., S. Osage
and W. Bayaud Sts.*Conn., Naugatuck*

Naugatuck Chemical Co.

Del., Wilmington

Atlas Powder Co.

DuPont de Nemours & Co., E. I.

Hercules Powder Co.

Ill., Chicago

Armour Fertilizer Works

*Daigger & Co., A., 54 W. Kinzie St.

*Mo., St. Louis*Commercial Acid Co., Boatman's
Bldg.Monsanto Chemical Works, 2nd St.
and LaFayette Ave.*N. Y., Buffalo*Contact Process Co., Abbott Road,
near Lee*N. Y., New York City*American Metal Co., Inc., 61 Broad-
wayButterworth-Judson Corp., 61 Broad-
wayEdgertyn Aniline Corp., 118 William
St.

General Chemical Co., 25 Broad St.

Marden, Orth & Hastings Corp'n., 61
BroadwaySouthern Oil & Chemical Co., 15 Park
Row*N. Y., Syracuse*

Semet-Solvay Co.

Ohio, Cincinnati

Globe Chemical Co., 1135 Regent Ave.

*Pa., Philadelphia*Pennsylvania Salt Mfg. Co., Widener
Bldg.*Pa., Warren*

Riverside Acid Works

Tenn., Copperhill

Tennessee Copper Co.

Nitroacetanilid, Para*N. Y., New York City*Alpha Chemical Works, Inc., Wool-
worth Bldg.Aniline Dyes and Chemicals, Inc.,
Cedar & Washington Sts

Chemical Co. of America, 28 Platt St.

Edison International Corporation, 165
BroadwayKlipstein & Sons Co., E. C., 644 Green-
wich St**Nitrobenzene***Conn., Naugatuck*

Naugatuck Chemical Co.

Del., Wilmington

DuPont de Nemours & Co., E. I.

Hercules Powder Co., 10th and Market
Sts.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Bound Brook

Calco Chemical Co.

*N. J., Jersey City*Seydel Mfg. Co., Forrest and Holliday
Sts.*N. J., Perth Amboy*General Supply Co., Market St., and
Bertrand Ave.*N. Y., New York City*Aniline Dyes and Chemicals, Inc.,
Cedar & Washington Sts.

Chemical Co., of America

Edison International Corporation, 165
Broadway

Nitrobenzene—cont.*N. Y., New York City—cont.*

*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61
Broadway
Merek & Co., 45 Park Place
Middlesex Aniline Co., Inc., 149
Broadway
National Aniline & Chemical Co., Inc.,
21 Burling Slip
New Jersey Products, Inc., 165 Broad-
way
Rector Chemical Co., 2 Rector St.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Nitrobenzol (see Nitrobenzene)**Nitrocellulose***Del., Wilmington*

Du Pont de Nemours & Co., E. I.
Hercules Powder Co.

Ill., Chicago

Van Schaack Bros. Chemical Works

Mass., Boston

Merrimac Chemical Co., 32 Broad St.

N. Y., New York City

Aetna Explosives Co., Inc., 120
Broadway
Celluloid Co., 30 Washington Place

Nitrochlorbenzene, Di*N. Y., City of Brooklyn*

Williamsburg Chemical Co., Inc., 230
Morgan Ave.

Nitrochlorbenzene, Ortho*Mo., St. Louis*

Monsanto Chemical Works, 2nd St. and
LaFayette Ave.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.
Chemical Co. of America, 28 Platt St.

Nitrochlorbenzene, Para*Del., Wilmington*

Du Pont Chemical Works

Mass., Boston

Atlantic Dyestuff Co., 88 Ames Bldg.

Mo., St. Louis

Monsanto Chemical Works, 2nd St.
and LaFayette Ave.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Chemical Co. of America, 28 Platt St.

*Drug & Dyestuff Corp., 120 Broadway

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Nitrogen*N. Y., New York City*

Air Reduction Sales Co., Inc., 120
Broadway

Linde Air Products Co., 42d St. Bldg.

Wash., Seattle

American Nitrogen Products Co.

Nitroglycerine (see Explosives)**Nitronaphthalene***Ill., Chicago*

Research Laboratory of Chicago, 467
E. Ontario St.

N. Y., Kingston

Nitrated Chemicals Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar
& Washington Sts.

Barrett Co., 17 Battery Place

*Klipstein & Co., A., 644 Greenwich
St.*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market
St.

Wis., Milwaukee

Newport Chemical Works, Inc., 1112
First National Bank Bldg.

Nitronaphthylamine*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich
St.

Nitrophenol, Ortho*Conn., Stamford*

American Synthetic Color Co.

Ill., Chicago

Research Laboratory of Chicago, 467
E. Ontario St.

Ill., Monroe

Monroe Color & Chemical Co.

N. Y., New York City

Chemical Co. of America, 28 Platt St.

*Herman & Herman, Inc., 6 Church St.

Merek & Co., 45 Park Place

National Aniline & Chemical Co., Inc.
21 Burling Slip

National Gum & Mica Co., 59th St.
and 11th Ave.

Rector Chemical Co., 2 Rector St.

N. Y., North Tonawanda

Synthetic Products Co., Inc.

Pa., Philadelphia

Harmer Laboratories Co.

Wis., Milwaukee

Newport Chemical Works, Inc., 1112
First National Bank Bldg.

Nitrophenol, Para*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.*Ill., Monroe*

Monroe Color & Chemical Co.

Mass., Boston

Atlantic Dyestuff Co., 88 Ames Bldg.

*Mo., St. Louis**Heil, Henry, Chemical Co., 210-214
S. 4th St.Monsanto Chemical Works, 2nd St. and
LaFayette Ave.*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Merck & Co., 45 Park Place

National Aniline and Chemical Co.

Inc., 21 Burling Slip

National Gum & Mica Co., 59th St.
and 11th Ave.

Rector Chemical Co., 2 Rector St.

N. Y., North Tonawanda

Synthetic Products Co., Inc.

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.*Wis., Milwaukee*Newport Chemical Works, Inc., 1112
First National Bank Bldg**Nitrosobethanaphthol***Pa., Philadelphia*

Harmer Laboratories Co.

Nitrosodimethylaniline*N. Y., New York City*Marden, Orth & Hastings Corp'n, 61
Broadway**Nitrosodimethylaniline, Base
and Hydrochloride***Pa., Philadelphia*

Harmer Laboratories Co.

Nitrosodimethylaniline Base-p*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Nitrosodimethylaniline, Para***Del., Wilmington*

Du Pont Chemical Works

*Ohio, Sandusky*Hord Color Products Co., S. Columbus
Ave.**Nitro Sodium Phenolate, Para***Del., Wilmington*

Du Pont Chemical Works

*Ohio, Sandusky*Hord Color Products Co., S. Columbus
Ave.**Nitrotoluene***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*N. Y., New York City*Chemical Co. of America, 176 Front St.
Dye Products & Chemical Co., Inc.,
202 Fifth Ave.

Empire Chemical Co., 149 Broadway

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
BroadwayNational Aniline & Chemical Co., Inc.,
21 Burling SlipNewport Chemical Works, Inc., 120
Broadway*Ind., Hammond*

Western Aniline Products Co.

Nitrotoluene, Mono*Del., Wilmington*

Du Pont Chemical Co.

*Ind., Hammond*Western Aniline Products Co., Morton
Court**Nitrotoluene, Ortho***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

Burdett Mfg. Co.

National Ox-Hydro Co.

Ind., Hammond

Western Aniline Products Co.

N. Y., New York City

Chemical Co. of America, 176 Front St.

Empire Chemical Co., 149 Broadway

Merck & Co., 45 Park Place

Transatlantic Chemical Corporation,
192 Broadway*Ohio, Cleveland*

Sherwin-Williams Co.

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.*Tenn., Kingsport*

Federal Dyestuff & Chemical Corp.

*Wis., Milwaukee*Newport Chemical Works, Inc., 1112
First National Bank Bldg.**Nitrotoluene, Para***Ind., Hammond*Western Aniline Products Co., Morton
Court*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Empire Chemical Co., 149 Broadway

Merck & Co., 45 Park Place

Transatlantic Chemical Corporation,
192 Broadway*Wis., Milwaukee*Newport Chemical Works, Inc., 1112
First National Bank Bldg.

Nitrous Oxide*Ill., Chicago*

*Burdett Mfg. Co., St. Johns Ct. and
Fulton St.

Ohio, Cleveland

Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg. Co., 1177 Mar-
quette Road

Nitroxylene*Ind., Indianapolis*

Montealm Chemical Works, 220 N.
Illinois St.

N. J., Newark

Central Dyestuff & Chemical Co.

N. Y., New York City

*Cooper & Co., Charles, 194 Worth St.
*Emmer & Amend, Third Ave., 18th to
19th Sts.

*Marden, Orth & Hastings Corp'n, 61
Broadway

*Merck & Co., 45 Park Place

Nuclein*Ill., Chicago*

Abbott Laboratories, The, 4753 Ra-
venswood Ave.

Oakum*Mo., St. Louis*

Broderick & Bascom Rope Co

N. J., Jersey City

Davey, W. O., Sons
Stratford, Oakum Co., Geo.

Ohio, Xenia

Hooven & Allison Co.

Pa., Philadelphia

Hoffman-Corr Mfg. Co

Ochre*Cal., San Francisco*

Dill-Crosett, Inc., 235 Pine St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St
Illinois Smelting & Refining Co.

N. J., Lincoln

Atlas Mineral Products Co.

N. Y., New York City

Heller & Merz Co., 505 Hudson St.
New Jersey Zinc Co., 160 Front St.

Oil, Almonds Bitter*N. Y., New York City*

Bush & Co., Inc., W. J., 100 William
St.

Oil, Aniline (see Aniline)**Oil, Banana***Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

Oil, Cassia*N. Y., New York City*

*Weymouth, Ralph W., 111 Broadway

Oil, Castor*Cal., San Francisco*

Balfour, Guthrie & Co., 350 California
St.

Dill-Crosett, Inc., 235 Pine St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

McCormick & Co., McCormick Bldg.
Webb & Sons, A. L., 115 E. Lombard
St.

Mass., Atlantic

Bosson & Lane

Mass., Boston

National Lead Co., 126 State St.

N. J., Harrison

National Oil Products Co.

N. Y., New York City

Aratol Mfg. Co., 100 William St.

Boyer Oil Co., Inc., 29 Broadway

Cook Oil Co., N. B., 148 Front St.

Francesconi & Co., J. C., 25 Beaver St.

*Fuerst Bros. & Co., 2 Stone St.

Jardine Matheson & Co., Ltd., 25
Madison Ave.

Marden, Orth & Hastings Corp'n., 67
Broadway

Oil Seeds Co., 38 S. William St.

*Sloan & Russell, Inc., 132 Nassau St.

Texas Co., 17 Battery Place

*Williamson & Co., 120 Broadway

N. Y., North Tonawanda

*Riverside Chemical Co., 1194-96
Oliver St.

Ohio, Cincinnati

*Winkler & Bro. Co., Isaac, 804 First
National Bank Bldg.

Oil, China Wood*Cal., San Francisco*

Dill & Crosett, Inc., 235 Pine St.

N. J., Newark

American Oil & Supply Co., 52 La-
fayette St.

N. Y., New York City

Balfour, Williamson & Co., 43 Ex-
change Place

Cook Oil Co., N. B., 148 Front St.

Devoe, F. W., & C. F. Reynolds Co.,
Fulton and William Sts.

Francesconi & Co., J. C., 25 Beaver St.

Jardine, Matheson & Co., Ltd., 25
Madison Ave.

Marden, Orth & Hastings Corp'n

Mitsui & Co., Ltd., 65 Broadway

Oil, Cocoanut*Cal., San Francisco*

Andersen & Co., A. O., 242 California St.

Dill-Crosett, Inc., 235 Pine St.

Mitsui & Co., Merchants' Exchange Bldg.

Stauffer Chemical Co., 624 California St.

N. Y., Buffalo

Kellogg, Spencer & Sons., Inc., Niagara Square

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway

Cook's, Adam, Sons, 708 Washington St.

Francesconi & Co., J. C., 25 Beaver St.

Marden, Orth & Hastings Corp'n

Nucoa Butter Co., 233 Broadway

Ohio, Cincinnati

Winkler & Bro., Isaac, 1st National Bank Bldg.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co., Electric Bldg.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St

Oil, Cod*N. Y., New York City*

Marden, Orth & Hastings Corp'n, 61 Broadway

Oil, Corn*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Wilson & Co., 41st St. and Ashland Ave.

Ind., Edinburg

Union Starch Refining Co.

Ind., Indianapolis

American Hominy Co., Fletcher Trust Bldg.

Iowa, Cedar Rapids

Douglas Co.

Mich., Harbor Beach

Huron Milling Co.

N. J., Harrison

National Oil Products Co.

N. Y., New York City

'American Maize-Products Co., 135 William St.

Boyer Oil Co., Inc., 29 Broadway

Cook Oil Co., N. B., 148 Front St.

Corn Products Refining Co., 17 Battery Place

Francesconi & Co., J. C., 25 Beaver St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Oil, Cottonseed*Ala., Troy*

Standard Chemical & Oil Co.

Cal., Los Angeles

California Food Products Co.

Ga., Augusta

Georgia Cotton Oil Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Fairbanks & Co., N. K., 7 S. Dearborn Ave.

Swift & Co., Union Stock Yards

Wilson & Co., 41st and Ashland Ave.

Ky., Louisville

Louisville Cotton Oil Co.

Victor Cotton Oil Co.

N. Y., New York City

American Cotton Oil Co., 27 Beaver St.

*Boyer Oil Co., Inc., 29 Broadway

Cook Oil Co., N. B., 148 Front St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Southern Cotton Oil Co., 24 Broad St.

Union Seed & Fertilizer Co., 27 Beaver St.

Ohio, Cincinnati

Buckeye Cotton Oil Co.

Globe Soap Co.

Proctor & Gamble Co.

R. I., Providence

Union Oil Co.

Oil, Dead*Del., Wilmington*

Du Pont de Nemours & Co., E. I

Oil, Kapok*N. Y., New York City*

*Boyer Oil Co., Inc., 29 Broadway

Oil, Lemon*N. Y., New York City*

Bush & Co., Inc., W. J., 100 William St.

Oil, Linseed*Cal., Los Angeles*

Globe Grain & Milling Co.

Cal., San Francisco

Dill-Crosett, Inc., Postal Telegraph Bldg.

Pacific Oil & Lead Works, 155 Townsend St.

Ill., Chicago

Chicago White Lead & Oil Co., 15th and Western Ave.

*Daigger & Co., A., 54 W. Kinzie St.

Minn., Minneapolis

Archer-Daniels Linseed Co., 2901 S. E. 6th St.

Minnesota Linseed Oil Co., 1101 S. 3d St.

Northern Linseed Oil Co.

Midland Linseed Products Co.

Oil, Linseed—cont.*N. Y., Buffalo*

Longman & Martinez, 207 Pearl St.
 Mann Bros. Co., 332 Ohio Ave.
 Niagara Linseed Oil Works
 Spencer, Kellogg & Sons, Inc. .

N. Y., New York City

American Linseed Co., Woolworth Bldg.

American Cotton Oil Co., 27 Beaver St.
 Cook Oil Co., N. B., 148 Front St.

Marden, Orth & Hastings Corp'n., 61 Broadway

National Lead Co., 111 Broadway

Ohio, Cleveland

Sherwin-Williams Co.

Ohio, Toledo

Toledo Seed & Oil Co.

Pa., Philadelphia

Lewis & Bros., Co., J. T., Lafayette Bldg

Pa., Pittsburgh

National Lead & Oil Co. of Pa., Commonwealth Bldg.

Oil, Lumbang*N. Y., New York City*

*Boyer Oil Co., Inc., 29 Broadway

Oil, Mustard*N. Y., New York City*

*Boyer Oil Co., Inc., 29 Broadway

Oil, Myrbane*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St

R. I., Providence

Industrial Chemical Co., Inc., P. O. Box 1288

Oil, Olein*N. Y., New York City*

Edgertyn Aniline Corp., 118 William St

Ohio, St. Bernard

Work Co., The M., Murray Ave.

Oil, Oleine*Mass., Atlantic*

Bosson & Lane

Oil, Olive*Cal., Los Angeles*

American Olive Co.
 Star Specialty Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

Pompeian Co.

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway
 Bush & Co., W. J., 100 William St.

Chiris, Antoine Co., 18 Platt St.

Marden Orth & Hastings Corp'n, 61 Broadway

Oil, Palm*Mass., Boston*

Young Co., Frank L., 111 Purchase St.

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway
 Cook Oil Co., N. B., 148 Front St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Oil, Peach Kernels*N. Y., New York City*

Bush & Co., Inc., W. J., 100 William St.

Oil, Peanut*Ala., Troy*

Standard Chemical & Oil Co

Cal., San Francisco

Balfour, Guthrie & Co., 350 California St.

N. Y., New York City

American Cotton Oil Co., 65 Broadway

Boehm, Ltd., Fred., Prod. Exch.

Francesconi & Co., J. C., 25 Beaver St.

Marden, Orth & Hastings Corp'n

Swan & Finch Co., 165 Broadway

Texas, Beaumont

Beaumont Peanut Oil Co

Oil, Perilla*N. Y., New York City*

*Boyer Oil Co., Inc., 29 Broadway

Oil, Pine*Fla., Jacksonville*

Florida Wood Products Co

Ga., Brunswick

Yaryan Rosin & Turpentine Co.

Ga., Cuttng

Georgia Lumber & Turpentine Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

La., New Orleans

American Turpentine & Tar Co., Ltd.
 Gulf Naval Stores Supply Co.

N. J., Bayonne

Standard Chemical Co., W. 5th St.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Fuller & Co., Ralph L., 4 Rector St.

Georgia Pine Turpentine Co., 160 Perry St.

General Naval Stores Co., Inc., 90 West St.

Wis., Milwaukee

Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Oil, Poppyseed*N. Y., New York City*

*Boyer Oil Co., Inc., 29 Broadway

Oil, Rapeseed*Cal., San Francisco*

Andersen & Co., A. O., 242 California St.

Dill-Crosett, Inc., 235 Pine St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway

Cook & Co., N. B., 148 Front St.

Francesconi & Co., J. C., 25 Beaver St.

Marden, Orth & Hastings Co., 61 Broadway

Mitsui & Co., Ltd.

National Gum & Mica Co., 59th St. and 11th Ave.

*Sloan & Russell, Inc., 132 Nassau St.

Oil, Red (*see Acid, Oleic*)**Oil, Soya Bean***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway

Cook Oil Co., N. B., 148 Front St.

Marden, Orth & Hastings Corp'n., 61 Broadway

*Mitsui & Co., Ltd., 25 Madison Ave.

National Gum & Mica Co., 59th St. and 11th Ave.

*Oil Seeds Co., 35 S. William St.

Oil, Vitriol (*see Acid, Sulphuric*)**Oils, Acetone***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Buffalo

Wood Products Co

N. Y., New York City

Industrial Chemical Co., 200 Fifth Ave

U. S. Industrial Chemical Co., 27 William St.

Mich., Wells

Delta Chemical Co.

Ohio, Cleveland

Cleveland-Cliffs Iron Co.

Pa., East Smethport

Norwich Chemical Co.

Oils, Animal*Ill., Chicago*

Armour & Co., 208 S. La Salle St.

Cudahy Packing Co., 111 W. Monroe St.

Wilson & Co., 41st St. and Ashland Ave.

N. Y., Buffalo

Dold Packing Co., Jacob, 745 William St.

N. Y., New York City

*Marden, Orth & Hastings Corp'n

Oils, Anthracene*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Oils, Asphaltum*Cal., San Francisco*

Standard Oil Co.

N. Y., New York City

Texas Co., 17 Battery Place

Ohio, Cleveland

National Refining Co., Rose Bldg.

Ohio, Toledo

Sun Co.

Pa., Pittsburgh

Gulf Refining Co., Frick Bldg.

Oils, Bean*N. Y., New York City*

*Arnhold, Karberg & Co., 21 State St.

Gillespie & Sons, L. C., 6 Fletcher St.

Mitsui & Co., Inc., 65 Broadway

Marden, Orth & Hastings Corp'n., 61 Broadway

*Patterson & Co., G. W. S., 133 Front St.

*Swan & Co., Alden S., 133 Front St.

Swan & Finch Co., 151 Maiden Lane

Oils, Bleaching*Mass., Atlantic*

Bosson & Lane

N. J., Passaic

Wolf, Jacques & Co., 342 Lexington Ave.

Oils, Camphor (*see Oils, Essential*)**Oils, Coal Tar***Ill., Chicago*

American Tar Products Co., 208 S. La Salle St.

Ill., Moline

Lewis, F. J., Mfg. Co.

Ohio, Cleveland

Warren Refining & Chemical Co.

Pa., Bethlehem

Bethlehem Steel Co.

Oils, Creosote*Conn., New Haven*

New Haven Gas Light Co., 80 Crown St.

Del., Wilmington.

Du Pont de Nemours & Co., E. I.

Fla., Gull Point

Pensacola Tar & Turpentine Co.

Ga., Savannah

Southern Oil & Chemical Co.

Ill., Chicago

American Coal Tar Products, 208 S. La Salle St.

*Daigger & Co., A., 54 W. Kinzie St.

Lewis Mfg. Co., F. J., 2500 S. Robey St.

Ind., Indianapolis

Republic Creosoting Co., Merchants Bank Bldg.

Mich., Detroit

Charcoal Iron Co. of America

N. Y., New York City

Barrett Co., 17 Battery Place

Edison International Corporation, 165 Broadway

Georgia Pine Turpentine Co., of New York, 160 Perry St.

*Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Cincinnati

Chatfield Mfg. Co., 3d and Plum Sts.

Ohio, Cleveland

Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Warren Refining & Chemical Co.

Pa., Philadelphia

Atlantic Turpentine & Refining Co., 121 Chestnut St.

United Gas Improvement Co., Broad and Arch Sts.

Wash., Tacoma

Standard Chemical Co.

N. Y., Monticello

Synfleur Scientific Laboratories

N. Y., New York City

American Aniline Products Co., Inc., 15 E. 12th St.

Arnold, Karberg & Co., 21 State St.

Bush & Co., W. J., 100 William St.

Chris Co., Antoine, 18 Platt St.

Dodge & Olcott Co., 87 Fulton St.

Edgertyn Aniline Corp., 118 William St.

Florasynth Laboratories, 15 Beekman St.

*Fuerst Bros. & Co., 2 Stone St.

*Fritzache Bros., 82 Beekman St.

*Fuller & Co., Ralph L., 4 Rector St.

Heine & Co., 7 Platt St.

Industrial Chemical Co., Fifth Ave. Bldg.

*Lueders & Co., Geo., 218 Pearl St.

McKesson & Robbins Co., Inc., 91 Fulton St.

*Magnus, Mabey & Reynard, 257 Pearl St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

*Rockhill & Vietor, 114 John St.

Rudkin & Co., J. A., 265 Broadway

*Sloan & Russell, Inc., 132 Nassau St.

Southern Oil & Chemical Co., 15 Park Row

*Stilwell Co., A. A., 28 Cliff St.

Ungerer & Co., 273 Pearl St.

Van Dyk & Co., 4-6 Platt St.

Wood & Selick, 36 Hudson St.

*Zinkelsen & Co., 135 William St.

Ohio, Cincinnati

Fries & Fries, 1501-13 W. 6th St.

Va., Richmond

Sauer Co., C. F.

Spain, Barcelona

Sociedad Anonima Monegal, Apartado Correos, No. 144

Oils, Essential*Cal., Redlands*

Citrus Products Co.

Kingsbury, H. P. D.

Cal., San Francisco

Coffin, Redington & Co., 625 3d Ave.

England, Liverpool

Clayton & Jowett, Ltd., 5 Concert St.

Ill., Chicago

Barrett & Co., M. L., 333 W. Lake Ave.

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Metcalf Co., Theo., 535 Boylston Ave.

Oils, Essential, Terpeneless*N. Y., New York City*

Bush & Co., W. J., 100 William St.

Oils, Ethereal*N. Y., New York City*

Merck & Co., 45 Park Place

Ohio, Cincinnati

Merrell Chemical Co., Wm. S., 515 E. 5th St.

Pa., Philadelphia

Powerhs-Weightman-Rosengarten Co.

Oils, Fish*Cal., Los Angeles*

Balfour, Guthrie, & Co.

California Food Products Co., 913 E. 3rd St.

Cal., San Francisco

Dill-Crosett, Inc., 235 Pine St.

Del., Lewes

Lewes Chemical & Oil Co.

Ill., Chicago

Rhodes & Co., Jas. H., 157 W. Austin Ave.

N. Y., New York City

Cook Oil Co., N. B., 148 Front St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Flotation*Cal., San Francisco*

Standard Oil Co. of Cal., 200 Bush St.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Fla., Gull Point

Pensacola Tar & Turpentine Co.

Ga., Brunswick

Yaryan Rosin & Turpentine Co.

Ga., Savannah

Southern Oil & Chemical Co.

Ill., Chicago

American Tar Products Co., 208 S. La Salle St

La., New Orleans

American Turpentine & Tar Co., New Basin

N. Y., New York City

Barrett Co., 17 Battery Place

Boyer Oil Co., Inc., 29 Broadway

Cook Oil Co., N. B., 128 Front St.

Flotation Oil & Chemical Co., 2 Rec-tor St.

*General Naval Stores Co., 90 West St.

Georgia Pine Turpentine Co. of N. Y., 160 Perry St

Pa., Grassland

Essential Oil Specialties Co., Inc.

Wash., Tacoma

Standard Chemical Co.

Oils, Flower*N. Y., Monticello*

Synfleur Scientific Laboratories

N. Y., New York City

National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Fruit*Mass., Boston*

American Soda Fountain Co.

N. Y., Monticello

Synfleur Scientific Laboratories

N. Y., New York City

*Stillwell Co., A. A., 28 Cliff St.

Oils, Fusel*Ill., Chicago*

Van Schaack Bros. Chemical Works, 3358 Avondale St.

Ill., Pekin

American Distilling Co.

La., New Orleans

Jefferson Distilling & Denaturing Co.

Mo., St. Louis

Mallinekrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Bush & Co., W. J., 100 William St.

Celluloid Zapon Co., 200 5th Ave.

Dodge & Olcott Co., 87 Fulton St.

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

Oils, Hydrocarbon*Ohio, Cincinnati*

Moore Oil Co., York and McLean Aves.

Ohio, Toledo

Sun Co

Pa., Bradford

Emery Mfg Co.

Oils, Hydrogenated*N. Y., New York City*

Marden, Orth & Hastings Corp'n., 61 Broadway

Oils, Leather*N. Y., New York City*

Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Mineral*Scotland, Glasgow*

Pumpherson Oil Co., Ltd., 135 Buchanan St.

Oils, Mineral, White*N. Y., New York City*

Lehn & Fink, Inc., 120 William St.

McKesson & Robbins, Inc., 91 Fulton St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Standard Oil Co., 26 Broadway

*Swan & Finch Co., 151 Maiden Lane

Oils, Mohlene*N. Y., New York City*

Marden, Orth & Hastings Corp'n., 61 Broadway

Oils, Monoline*Mass., Boston*

Bosson & Lane

Oils, Monopole, U. S. P.*N. J., Passaic*

Wolf, Jacques & Co., 342 Lexington Ave.

Oils, Olive*Cal., Los Angeles*

American Olive Co., E. Adams and Long Beach Ave.

Ill., Chicago

Libby, McNeill & Libby, Union Stock Yards

Md., Baltimore

Pompeian Co., Coca Cola Bldg.

Mass., Boston

Marden, Orth & Hastings Corp'n

N. Y., Brooklyn

Alart & McGuire Co., 116 Inlay St.

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway

Chris Co., Antome, 18 Platt St.

Marden, Orth & Hastings Corp'n

Natra Co., Inc., 120 Broadway

Nicholas & Co., Geo. S., 43 Beaver St.

Oils, Paint*N. Y., New York City*

*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Paraffine*Cal., San Francisco*

Standard Oil Co. of Cal., 200 Bush St.

Ill., Chicago

Consumers Refining Co., 76 W. Monroe St.

Smclair Refining Co., Conway Bldg.

N. Y., New York City

Texas Co., 17 Battery Place

Ohio, Toledo

Sun Co.

Pa., Oil City

Continental Refining Co., Ltd., Box 175

Pa., Philadelphia

Crew-Levick Co., 111 N. Broad St.

Oils, Pine Flotation*Fla., Jacksonville*

Florida Wood Products Co.

Oils, Pine, Steam Distilled, Plain and Soluble*La., Elizabeth*

Producers Turpentine Co.

Oils, Pine Tar*N. Y., New York City*

*General Naval Stores Co., 90 West St.

Georgia Pine Turpentine Co. of New York, 160 Perry St.

Oils, Rosin*Ga., Cutting*

Georgia Lumber & Turpentine Co.

Ga., Savannah

Willcox-Ives Oil Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

La., New Orleans

American Turpentine & Tar Co., Ltd

Gulf Naval Stores Supply Co.

Mass., Atlantic

Bosson & Lane

N. Y., New York City

*Casey & Co., J. A., 144 Maiden Lane

Edgertyn Aniline Corp., 118 William St.

*General Naval Stores Co., Inc.

Georgia Pine Turpentine Co., 158

Perry St.

Marden, Orth & Hastings Corp'n., 61 Broadway

Ohio, Cincinnati

*Winkler & Bros. Co., Isaac, 804 First National Bank Bldg.

Oils, Sassafras*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Seal*N. Y., New York City*

*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Soluble*England, West Bromwich*

Lewington Whitehouse, Olympic Works, Carters Green

Ill., Chicago

Wolf & Co., Jacques, 342 Lexington Ave.

Md., Baltimore

Bloede Co., Victor G., Caton Ave.

Thomsen Chemical Co., Race and Winder Sts.

Mass., Atlantic

Bosson & Lane

Mass., Boston

United Indigo & Chemical Co., 176 Federal St.

N. J., Harrison

National Oil Products Co., Essex and First St.

N. J., Jersey City

Interstate Chemical Co., 667 Garfield Ave.

Oils, Soluble—cont.*N. Y., New York City*

Arabol Mfg. Co., 100 William St.

Barrett Co., 17 Battery Place

Fiske Bros. Refining Co., 24 State St.

Herrick-Voigt Chemical Corporation,
1 Liberty St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61
Broadway

Sonneborn Sons, L., 262 Pearl St.

Standard Oil Co., 26 Broadway

*Ohio, Cincinnati*Moore Oil Co., York and McLean
Aves.*Pa., Erie*

Bayerson Oil Works

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

*Scotland, Glasgow*Barr, Ltd., James C., 27, Blythswood
Square**Oils, Soya Bean***Cal., San Francisco*Balfour, Guthrie & Co., 350 California
St.

Dill-Crosett, Inc., 235 Pine St.

Mass., Boston

Young Co., Frank L., 111 Purchase St

N. Y., New York City

Boyer Oil Co., Inc., 29 Broadway

Cook Oil Co., N. B., 148 Front St

Francesconi & Co., J. C., 25 Beaver St

Jardine, Matheson & Co., Ltd., 25
Madison Ave.

Marden, Orth & Hastings Corp'n

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co

Oils, Sperm*N. Y., New York City**Marden, Orth & Hastings Corp'n, 61
Broadway**Oils, Sulphonated***Md., Baltimore*

Bloede Co., Victor G., Caton Ave.

*N. J., Harrison*National Oil Products Co., Essex and
First Sts.*N. J., Passaic*

*Wolf, Jacques & Co.

N. Y., New York City

Apex Chemical Co., Inc., 63 Park Row

Arabol Mfg. Co., 100 William St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip*Pa., Philadelphia*Houghton & Co., E. F., 240 Somerset
St.**Oils, Sulphur***N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
Broadway**Oils, Synthetic***N. Y., New York City*

Van Dyk & Co., 4-6 Platt St.

Oils, Tanners'*N. Y., New York City**Marden, Orth & Hastings Corp'n, 61
Broadway**Oils, Tar***Fla., Jacksonville*

Florida Wood Products Co.

N. Y., New York City

Casey & Co., J. A., 144 Maiden Lane

Georgia Pine Turpentine Co., 158
Perry St.Marden, Orth & Hastings Corp'n, 61
Broadway

Zobel Co., Inc., Ernst, 38 Water St.

Oils, Turkey Red*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Md., Baltimore**Maryland Chemical Co., Columbia
Ave & B. & O. R. R.*Mass., Atlantic*

Bosson & Lane

*N. J., Harrison*National Oil Products Co., Essex and
First Sts.*N. J., Passaic*Wolf, Jacques & Co., 342 Lexington
Ave.*N. Y., New York City*Herrick-Voigt Corporation, 1 Liberty
St.Kalle Color & Chemical Co., 530 Canal
St.*Klipstein & Co., A., 644 Greenwich
St.*Kuttruff, Pickhardt & Co., Inc., 128
Duane St.Marden, Orth & Hastings Corp'n, 61
Broadway

Sonneborn Sons, L., 262 Pearl St.

Welch, Holme & Clark Co., 383 West
St.*Ohio, Toledo*

Paragon Mfg. Co.

Pa., Oil City

Pennsylvania Refining Co.

Texas, Galveston

Magnolia Petroleum Co.

Oils, Vegetable*Ill., Chicago*

Swift & Co., Union Stock Yards

N. J., Bayonne

Nucora Butter Co.

N. Y., New York City

American Edible Oils Co., 171 Duane St.

*Cooper & Cooper, 309 Broadway

*Fuerst Bros. & Co., 2 Stone St.

Marden, Orth & Hastings Corp'n, 61 Broadway

*Sloan & Russell, Inc., 132 Nassau St.

*Welch, Holme & Clark Co., 381 West St.

Ohio, Cincinnati

Moore Oil Co., York and McLean Aves.

Ohio, Dayton

Economy Soap Products Co., N. Irwin St.

Pa., Philadelphia

Union Petroleum Co., Widener Bldg.

Oils, Whale*N. Y., New York City*

*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Wintergreen*N. Y., New York City*

Edgertyn Aniline Corp., 118 William St.

National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Wood*Cal., San Francisco*

Balfour, Guthrie Co.

Dill-Crosett, Inc., 235 Pine St.

Del., Wilmington

Du Pont de Nemours Co., E. 1.

Mich., Wells

Delta Chemical Co.

Mashek Chemical & Iron Co.

N. Y., New York City

General Naval Stores Co., Inc., 90 West St.

Jardine, Matheson & Co., Ltd., 25 Madison Ave.

Ohio, Cleveland

Haishaw, Fuller & Goodwin Co.

Oils, Wood, Creosote*Ohio, Cleveland*

Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Oils, Wood Preserving*Ill., Madison*

Kettle River Co.

Oils, Wool*Cal., Los Angeles*

Union Oil Co. of Cal., 215 W. 7th St.

Cal., San Francisco

Standard Oil Co. of Cal., 200 Bush St.

N. Y., New York City

Sonneborn Sons, Inc., L., 262 Pearl St.

Swan & Finch Co., 165 Broadway

Ohio, Celina

Celina Stearic Acid Co.

Ohio, Toledo

Sun Co.

Oleum (see Acid, Sulphuric, Fuming)**Olo Naphthol***Mass., Atlantic*

Bosson & Lane

Olo Soffene*Mass., Atlantic*

Bosson & Lane

Orange*N. Y., Cook's Falls*

Beaverkill Color & Chemical Co., The

Orange, Acid (Wool)*Tenn., Kingsport*

Federal Dyestuff & Chemical Corp.

Orange, Anthranine*Pa., Philadelphia*

*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Orange, Basic*N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orange, Brilliant D. P.*N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orange, Chrome*Pa., Reading*

Althouse Chemical Co., 500-540 Pear St.

Orange Direct*R. I., Providence*

Industrial Chemical Co., Inc., 283 Pitman St.

Orange, Direct Fast*N. J., Bound Brook*

Peerless Color Co., Inc.

Pa., Philadelphia

*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Pa., Reading

Althouse Chemical Co., 500-540 Pear St.

Orange, Direct 3 G.*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Orange, Direct R.*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Orange II*Ill., Chicago*

Research Laboratory of Chicago, 467 E. Ontario St.

N. J., Perth Amboy

General Supply Co., Market St. and Bertrand Ave.

Orange III*Ill., Chicago*

Research Laboratory of Chicago, 467 E. Ontario St.

Orange, G., Crystals*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Orange, Methyl*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Orange, Napthol*Ohio, Sandusky*

Hord Color Products Co., S. Columbus Ave.

Orange, Oil Soluble*N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orange, Spirit Soluble*N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orpiment (*see Arsenic Sulphide*)**Ortholene***N. J., Elizabeth*

Bayway Chemical Co.

Orthophene Bate (*For deliming and Skins*)*N. Y., New York City*

Apex Chemical Co., Inc., 63 Park Row

Osage Orange Extract (*see Extract, Osage Orange*)**Osmium***N. J., Newark*

American Platinum Works, 225-231 New Jersey R. R. Ave.

Baker & Co., Inc., Murray and Austin Sts.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Pa., Philadelphia

Foote Mineral Co., Inc., 111-113 N. 19th St.

Osmium Chloride*N. J., Newark*

American Platinum Works, 225-231 New Jersey R. R. Ave.

Osseine*N. Y., New York City*

*Wilkes-Martin-Wilkes Co., 135 William St.

Oxgall Products*Mich., Detroit*

Digestive Ferments Co., 240 Henry St.

Oxygen*Ill., Chicago*

*Burdett Co., St. Johns Court

*Daigger & Co., A., 54 W. Kinzie St.

Ind., Indianapolis

Prest-O-lite Co., Inc.

N. J., Newark

International Oxygen Co., 796 Frelinghuysen Ave.

N. Y., New York City

Air Reduction Sales Co., Inc., 120 Broadway

American Oxygen Co.

Linde Air Products Co., 42d St. Bldg.

N. Y., Niagara Falls

Castner Electrolytic Alkali Co.

Ohio, Cleveland

Lennox Chemical Co., 1201 E. 55th St.

Ohio Chemical & Mfg. Co., 1177 Marquette Road

Ohio, Wickliffe

Clarke Chemical Co., St. Clair St.

Pa., Philadelphia

White Dental Mfg. Co., S. S.

Ozokerite*Mass., Boston*

Bowdlear Co., W. H., 73 Broad St.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

*Innis, Speiden & Co., 46 Cliff St.

*Salomon & Bro., L. A., 216 Pearl St.

Smith & Nichols, 121 Maiden Lane

Utah, Soldier Summit

Wasatch Ozokerite Co.

Paint, Aluminium*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ohio, Cincinnati

Fries & Fries, 1501-13 W. 6th St.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.

R. I., Providence

U. S. Gutta Percha Paint Co.

Paint, Cement Floor*N. Y., New York City*

Toch Bros., 320 Fifth Ave.

Paints, Acid Proof*Ill., Chicago*

Redmanol Chemical Products Co., 636 W. 22d St.

Mass., Boston

Cabot, Inc., Samuel

Mich., Detroit

Trus-Con Laboratories

Mo., St. Louis

Certain-teed Products Corporation, 314 Broadway

N. Y., New York City

Barrett Co., 17 Battery Place

General Bakelite Co., 2 Rector St.

Gutta Percha & Rubber Mfg. Co., 127 Duane St.

Toch Bros., 320 Fifth Ave.

United States Varnish Co., 41 Park Row

Warren Chemical & Mfg. Co., 17 Battery Place

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Cincinnati

*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Ohio, Cleveland

Glidden Varnish Co.

Sherwin-Williams Co.

Ohio, Warren

Goreen Mfg. Co., Main St.

Pa., Philadelphia

Flexible Compounds Co., 3607 Haverford Ave.

Barber Asphalt Paving Co

French & Co., Samuel, H., 410 Callowhill St.

Wis., Milwaukee

Patton Paint Co., 213 Lake Ave.

Paints, Asbestos*Ill., Chicago*

*Acme Asbestos Covering & Supply Co., 401 N. Ada St.

N. J., Manville

Johns-Manville Co.

Ohio, Lockland

Carey Mfg. Co., Pnipp

Paints, Asphalt*Cal., San Francisco*

Standard Oil Co.

Mo., St. Louis

Certain-teed Products Corporation

N. Y., New York City

Barrett Co.

Pa., Philadelphia

Barber Asphalt Paving Co., Land Title Bldg.

Md., Baltimore

Interocean Oil Co.

N. Y., New York City

United States Asphalt Refining Co.

Toch Bros., 320 Fifth Ave.

Ohio, Cincinnati

Chatfield Mfg. Co., The

Paints, Chemical (see Specific Headings)**Paints, Cold Water***Mo., St. Louis*

Reardon Glue Mfg. Co.

Paints, Elastic Enamel Black*Md., Baltimore*

Bloede Co., Victor G., Station "D," Caton Ave.

Paints, Gold*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ohio, Cincinnati

Fries & Fries, 1501-13 W. 6th St.

Paints, Luminous*N. Y., New York City*

Toch Bros., 320 Fifth Ave.

Ohio, Cleveland

Sherwin-Williams Co., 601 Canal Road, N. W.

Paints, Metal*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Md., Baltimore

Bloede Co., Victor G., Caton Ave.

Ohio, Cincinnati

Fries & Fries, 1501-13 W. 6th St.

Paints, Oil*N. Y., New York City*

Bieleberg Co., A., 67-69 Front St.

Paints, Pegamoid Aluminium*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Paints, Refrigeration*N. Y., New York City*

Schwenker, Inc., W. M., 340-344 E. 92d St.

Paints, Tar*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Mich., Detroit

Trun-Con Laboratories

Ohio, Cincinnati

Chatfield Mfg. Co., The

Paints, Technical*Mo., St. Louis*

Dielectric Mfg. Co.

N. Y., New York City

Schwenker, Inc., W. M., 340-344 E. 92d St.

Paints, Water Proofing*Md., Baltimore*

Bloede Co., Victor G., Caton Ave.

Mich., Detroit

Trun-Con Laboratories

Mass., Boston

Cabot, Inc., Samuel, 141 Milk St.

N. Y., New York City

Toch Bros., 320 Fifth Ave.

N. Y., Syracuse

Semet-Solvay Co.

Palladium*N. J., Newark*

Baker & Co., Inc., 54 Austin St.

N. J., Perth Amboy

Raritan Copper Works

N. Y., New York City

American Smelting & Refining Co., 120 Broadway

Palo Co., 90 Maiden Lane

U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway

Pa., Malvern

Bishop & Co., Platinum Works, J.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Paper Filler (*see Filler, Paper*)**Paper, Test***N. Y., New York City*

Squibb & Sons, E. R., 78 80 Beekman St.

Paraffine Wax (*see Wax, Paraffine*)**Paraldehyde***Canada, Montreal, P. Q.*

Canadian Electro Products, Co., Ltd., 611 Power Bldg.

Ohio, Cleveland

Cleveland-Cliffs Iron Co.

N. Y., New York City

*Canada Carbide Sales Co., Inc., 30 Church St.

*Fairbanks, Morse Co., 30 Church St.

Merck & Co., 45 Park Place

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Paraminophenol*Pa., Philadelphia*

Harmer Laboratories Co.

Paranitracetanilid*N. Y., New York City*

Chemical Co. of America, Inc., 176 Front St.

Paris Green*Mich., Detroit*

Detroit White Lead Works

N. J., Newark

Cawley, Cark Co.

N. Y., New York City

Ausbacher Insecticide Co., Inc., 527 Fifth Ave

Blanchard, Co., J. A., 30 Church St.

Bristol Myers Co.

*Cooper & Cooper, 309 Broadway

Devco Reynolds Co., Fulton St.

McKesson & Robbins, Inc., 91 Fulton St.

White Tar Co., The, 6 Cliff St.

Ohio, Cleveland

Sherwin-Williams Co.

R. I., Providence

*Lewis, John D.

Wis., Milwaukee

Corono Chemical Co.

Paris White*Cal., San Francisco*

Paraffine Paint Co.

England, Liverpool

Brazendals & Co., 37 Leeds St.

Ill., Chicago

U. S. Gypsum Co., 205 W. Monroe St.

Iowa, Fort Dodge

Plymouth Gypsum Co.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

*Salomon & Bro., L. A., 216 Pearl St.

Wash., Tacoma

Pacific Coast Gypsum Co.

Parlodion*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Par-O-Lac*N. Y., New York City*

Hirsh & Schofield, Inc., 50 Broad St.

Paste*Mass., Framingham*

Dennison Mfg. Co.

Arabol Mfg. Co., 100 Williams St.

National Gum & Mica Co.

Paste, Alcanin

N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.

Paste, Alizarin Blue, 2 B.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Paste, Cold Water, Dry

Mo., St. Louis
Reardon Glue Mfg. Co.

Paste, Phosphoric Acid

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
R. I., Providence
Rumford Chemical Works

Paste, Waterproofing

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Pepsin

Ill., Chicago
Armour & Co., Union Stock Yards
Cudahy Packing Co., 111 W. Monroe St.

Md., Baltimore
Burroughs Bros. Mfg. Co.

Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Parke, Davis & Co.

N. Y., New York City
Farechild Bros. & Foster, 74 Lighthouse St.
McKesson & Robbins, Inc., 91 Fulton St.
Merek & Co., 45 Park Place

Peptone

Mich., Detroit
Digestive Ferments Co., 240 Henry St.

Perfumes Raw Materials

Ill., Chicago
Kirk & Co., J. S., 106 E. Michigan Ave.

Mass., Boston
Liggett Co., Louis K.
United Drug Co.
United Perfume Co.

N. J., Jersey City
Colgate & Co.
Seydel Mfg. Co.

N. Y., Buffalo
Larkin Co.

N. Y., Long Island City
American Druggists Syndicate

N. Y., Monticello
Synsleur Synthetic Laboratories

N. Y., New York City

Chiris, Antoine, Co., 20 Platt St.
Compagnie Morana, 184 Fifth Ave.
Dodge & Olcott Co., 87 Fulton St.

*Fuller & Co., Ralph L., 4 Rector St.

*Gross & Co., Geo. V., 30 Old Slip St.

*Heine & Co., 7 Platt St.

*Lathrop & Co., H. R., 116 Beekman St.

*Lueders, Geo., & Co., 218 Pearl St.

*Magnus, Maybee & Reynard, 257 Pearl St.

National Aniline & Chemical Co., 21 Burling Slip

*Pfaltz & Bauer, Inc., 300 Pearl St.

Plymouth Organic Laboratories, 65 Ann St.

*Rockhill & Vietor, 22 Cliff St.

Ungerer & Co., 273 Pearl St.

*Van Dyk & Co., 6 Platt St.

Ohio, Cincinnati

Jergens Co., Andrew, 2535 Spring Grove Ave.

Okl., Oklahoma City

Bowers & Co., O. C., 23 Rena Ave.

Pa., Philadelphia

Smith, Kline & French Co., 431 Arch St.

Wampole & Co., H. K., 428 Fairmount Ave.

Petroleum and Petroleum By-Products

Cal., Los Angeles

Mexican Petroleum Co.
Union Oil Co. of Cal., 215 W. 7th St.

Ill., Chicago

Consumers' Refining Co.
Sinclair Refining Co.

La., Crowley

Crowley Oil & Mineral Co.

Mo., St. Louis

Pierce Oil Corp., Olive and Broadway

N. Y., New York City

Indian Refining Co., 17 Battery Place

Standard Oil Co., 26 Broadway

Texas Co., 17 Battery Place

Tidewater Oil Co., 11 Broadway

Valvoline Oil Co., 11 Broadway

Ohio, Cincinnati

Moore Oil Co., York and McLean Aves.

Ohio, Cleveland

National Refining Co., Rose Bldg.

Ohio, Toledo

Paragon Refining Co.

Sun Co., The

Okl., Muskogee

Muskogee Refining Co.

Okl., Okmulgee

American Refining Co.

Okl., Sapulpa

Sapulpa Refining Co.

Petroleum and Petroleum By-Products—cont.*Okla., Tulsa*

Cosden & Co., Inc.

Empire Refineries, Inc., Unity Bldg.

Pa., Bradford

Emery Mfg. Co.

Pa., Oil City

Crystal Oil Works

Empire Oil Works

Germania Refining Co.

Independent Oil Refining Co., Ltd.

Pennsylvania Refining Co.

Pa., Philadelphia

Crew-Levick Co., 111 N. Broad St.

Pure Oil Co., Lafayette Bldg.

Union Petroleum Co., 135 S. 2d St.

Pa., Pittsburgh

Gulf Refining Co.

Waverly Oil Works Co., 54th St.

Pa., Warren

Pennsylvania Oil Products Refining Co.

Warren Refining Co.

Pharmaceutical Products (see also Chemicals, Pharmaceutical)*England, Oldham*

Granville Wood & Co., Aschroft St.

Ill., Chicago

Abbott Laboratories, 4757 Ravenswood Ave.

Armour & Co., Union Stock Yards

Hollister-Wilson Laboratories

Ind., Indianapolis

Lilly & Co., Eli, 224 E. McCarthy St.

Mich., Detroit

Parke, Davis & Co.

Stearns & Co., Frederick

Mo., St. Louis

Lambert Chemical Co.

N. Y., New York City

American Aniline Products, Inc., 80 Fifth Ave.

Calco Chemical Co., Woolworth Bldg.

Edgertyn Aniline Corp., 118 William St.

National Gum & Mica Co., 59th St. and 11th Ave.

Rector Chemical Co., 2 Rector St.

Pa., Philadelphia

Mulford Co., H. K.

Phenacetin (see Acetphenetidin)**Phenenthroin***N. Y., New York City*

Barrett Co., 17 Battery Place

Phenol*Conn., Stamford*

American Synthetic Color Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Mich., Midland

Dow Chemical Co.

Mo., St. Louis

Commercial Acid Co., Boatmen's Bank Bldg.

Lambert Chemical Co., Railway Exchange Bldg.

Mallinckrodt Chemical Works, 3600 N. 2d St.

Monsanto Chemical Works, 1800 S. 2d St.

N. J., Elizabeth

Bayway Chemical Co.

N. J., Newark

American Synthetic Dyes, Inc.

N. Y., Albany

Albany Chemical Co.

N. Y., Brooklyn

Cresol Chemical Co., 10 Van Buren St.

N. Y., New York City

Aetna Explosives Co., Inc., 120 Broadway

*Alexander & Co., Inc., C. S., 61 Broadway

*Baker & Bro., H. J., 81 Fulton St.

Barrett Co., 17 Battery Place

Butterworth-Judson Co., 61 Broadway

Campbell & Co., John, 75 Hudson St.

Chemical Co. of America, Inc., 28 Platt St.

*Echavarria & Co., R., 8 Bridge St.

Edgertyn Aniline Corp., 118 William St.

Edison International Corporation, 165 Broadway

Fuller & Co., Ralph L., 4 Rector St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

Merek & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

Rector Chemical Co., 2 Rector St.

Southern Oil & Chemical Co., 15 Park Row

Stein, Hall & Co., Inc., 617 Broadway

N. Y., Syracuse

Semet-Solvay Co.

N. Y., Wappingers Falls

Standard Aniline Products, Inc.

Ohio, Cincinnati

Chatfield Mfg. Co., The

Ohio, Youngstown

Youngstown Chemical Co.

Pa., Carnegie

Aetna Chemical Co.

Phenol—cont.*Pa., Easton*

Baker & Adamson Chemical Co.

Pa., Lock Haven

Stanley Aniline Chemical Works, Inc.

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.Smith, Kline & French Co., 431 Arch
St.

United Gas Improvement Co.

R I., Providence

*Lewis, John D., Turks Head Bldg.

Tenn., Chattanooga

Chattanooga Chemical Co., Inc.

Phenol, Indo*N. Y., New York City*Wright Chemical Corporation, 38 Park
Row*Ohio, Sandusky*Hord Color Products Co., S. Columbus
Ave.**Phenolic Condensation Products***N. J., Bloomfield*

Condensite Co. of America

Phenolphthalein*Mo., St. Louis*Mallinckrodt Chemical Works, 3600 N.
2nd St.Monsanto Chemical Works, 2nd St. and
LaFayette Ave.*N. J., Jersey City*Seydel Mfg. Co., Forrest and Holliday
Sts.*N. Y., New York City*

Merek & Co., 45 Park Place

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Schenectady

Organic Products Corp.

*Ohio, Youngstown*Youngstown Chemical Co., Sycamore
St.*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Pheno-Safranine***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Phenylacetaldehyde***N. J., Bayonne*

Standard Chemical Co., W. 5th St.

Ohio, Cincinnati

Fries & Fries, 1501 13 W. 6th St.

Phenyl Cyanide*Ohio, Sandusky*Hord Color Products Co., S. Columbus
Ave.**Phenylenediamine, Para***N. J., Jersey City*Seydel Mfg. Co., Forrest and Halliday
Sts.*N. Y., Brooklyn*Zobel Color Works, Inc., 95-127 Ninth
St.*N. Y., Kingston*

Nitrated Chemicals Co.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.*Chemical Co. of America, 176 Front
St.*Dye Products & Chemical Co., Inc.,
200 Fifth Ave.

*Kley, Inc., 39 Cortland St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip

Edison International Corporation

N. Y., Wappingers Falls

Standard Aniline Products, Inc.

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Phenyl-Ethyl Acetate***N. Y., New York City*Rector Chemical Co., Inc., 2 Rector
St.**Phenyl-Ethyl Alcohol***N. Y., New York City*Rector Chemical Co., Inc., 2 Rector
St.**Phenylhydrazine***N. J., Ridgefield Park*

British-American Chemical Co., Inc.

*N. Y., New York City*Rector Chemical Co., Inc., 2 Rector
St.**Phenylhydrazine, Base and Hydrochloride***Pa., Philadelphia*

Harmer Laboratories Co.

Phenylhydrazine Base, C. P.*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.

Phenylhydrazine Hydrochloride*Ohio, Sandusky*

Hord Color Products Co., S. Columbus Ave.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Phenylhydrazine Hydrochloride C. P.*Ill., Chicago*

Research Laboratory of Chicago, 467 E. Ontario St.

Phenylnaphthylamine, Alpha*N. Y., New York City*

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Phloridzine*Pa., Philadelphia*

Harmer Laboratories Co.

Phosgene*Fla., Jacksonville*

Florida Wood Products Co.

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Hemingway, Inc., Frank, 115 Broadway

Pa., Philadelphia

Thomas Co., Arthur H., W. Washington Square

Phosphate Rock*Ark., Little Rock*

Arkansas Fertilizer Co.

Fla., Lakeland

Lakeland Phosphate Co.

Fla., Pierce

Pierce Phosphate Co.

Ill., Chicago

Swift & Co., Union Stock Yards

Md., Baltimore

United States Fertilizer Co., Phoenix Bldg.

N. Y., New York City

American Agricultural Chemical Co., 2 Rector St.

American Cyanamid Co., 511 Fifth Ave.

*Baker & Bro., H. J., 81 Fulton St.

International Agricultural Corp., 165 Broadway

Marden, Orth & Hastings Corp'n, 61 Broadway

Prairie Pebble Phosphate Co., 165 Broadway

Va., Richmond

Virginia-Carolina Chemical Co.

Phosphate of Soda (see Sodium Phosphate)**Phosphorus***Canada, Buckingham*

Electric Reduction Co., Ltd.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

*Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Coignet Chemical Products Co., Inc., 17 State St.

Southern Oil & Chemical Co., 15 Park Row

*Takamine Commercial Corporation, 130 Broadway

*Warner Chemical Co., 52 Vanderbilt Ave.

N. Y., Niagara Falls

Oldbury Electro-Chemical Co.

Pa., Easton

*Baker & Adamson Chemical Co.

Pa., Philadelphia

American Phosphorus Co.

*Powers-Weightman-Rosengarten Co.

Phosphorus, Amorphous*N. Y., New York City*

*Campbell, C. W., 11 Cliff St.

Coignet Chemical Products Co., Inc., 17 State St.

Phosphorus Compounds*N. Y., New York City*

Radium Luminous Material Corporation, 55 Liberty St

Phosphorus Oxychloride*N. Y., New York City*

*Baker & Bro., H. J., 81 Fulton St.

Phosphorus Pentachloride*N. Y., New York City*

Baker & Bro., H. J., 81 Fulton St.

General Chemical Co., 25 Broad St.

Phosphorus Pentoxide*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Phosphorus Sesquisulphide*N. Y., New York City*

*Baker & Bro., H. J., 81 Fulton St.

*Campbell, C. W., 11 Cliff St.

Coignet Chemical Products Co., Inc., 17 State St.

*Graham, Hinkley & Co., 135 Front St.

Phosphorus Trichloride*N. Y., New York City*

*Baker & Bro., H. J., 81 Fulton St.

Photographic Developers*Ind., Hammond*

Western Aniline Products Co., Morton Court

Phthalic Anhydride*Cal., Berkeley*

Catalytic Chemical Co., 3d and Bancroft Sts.

Mo., St. Louis

Monsanto Chemical Works, 2nd & La Fayette Ave.

N. Y., Hastings-on-Hudson

*Zinsser & Co.

N. Y., Monticello

Mont Color & Chemical Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar & Washington Sts.

Barrett Co., 17 Battery Place
Chemical Co. of America, 176 Front StEdgertyn Aniline Co., 118 William St.
Rector Chemical Co., 2 Rector St.*Ohio, Youngstown*

Youngstown Chemical Co.

N. Y., Ossining

Ossining Chemical Works

Phthalimid*Ohio, Youngstown*

Youngstown Chemical Co., Sycamore St.

Pigments (see also Colors, Dry)*D. C., Washington*

American Rutile Co. 622 F St., N. W.

England, Essex, Loughton

Madderton & Co., Ltd.

N. J., Patterson

Fine Colors Co., 21-29 McBride Ave

N. Y., New York City

Heller & Merz Co., 505 Hudson St.

New Jersey Zinc Co., 55 Wall St

Pine Tar (see Tar, Pine)**Pink, Direct Brilliant, B***Pa., Reading*

Althouse Chemical Co., 500-540 Pear St.

Pink, Direct Fast, R*Pa., Reading*

Althouse Chemical Co., 500-540 Pear St.

Pink, Direct, RX*Pa., Reading*

Althouse Chemical Co., 500-540 Pear St.

Pitch*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ga., Savannah

Antwerp Naval Stores Co.

National Rosin Oil & Size Co.

Southern Oil & Chemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

England, Liverpool

Brazendals & Co., 37 Leeds St.

La., New Orleans

American Turpentine & Tar Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Marden, Orth & Hastings Corp'n, 61 Broadway

United Naval Stores Co.

N. Y., Syracuse

Semet-Solvay Co

Pitch, Stearine*N. Y., New York City*

*Fuerst Bros. & Co., 2 Stone St.

*Iamson & Bro., John L., 80 Maiden Lane

Plaster of Paris (see Paris White)**Plastics and Elastics***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

Redmanol Chemical Co., 636 W. 22d St.

N. J., Bloomfield

Condensite Co. of America

N. Y., New York City

General Bakelite Co., 2 Rector St.

Ohio, Akron

Goodyear Tire & Rubber Co.

Platinum*Ill., Chicago*

*Goldsmith Bros. Smelting & Refining Co., Madison and Wabash Aves.

N. J., Newark

*American Platinum Works, 231 New Jersey R. R. Ave.

*Baker & Co., Inc., Murray and Austin Sts.

N. J., Perth Amboy

Raritan Copper Works

N. Y., New York City

American Smelting & Refining Co., 120 Broadway

*Baker & Co., Inc., 30 Church St.

Engelhard, Charles, 50 Church St.

Platinum—cont.*N. Y., New York City—cont.*

U. S., Metal Refining Co., 42 Broadway

U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway

Pa., Malvern

*Bishop & Co., J., Platinum Works

Pa., Philadelphia

Foote Mineral Co.

Platinum (Scrap)*Conn., Hartford*

Ney Co., J. M.

Platinum Salts*Ill., Chicago*

*Laboratory Materials Co., 640 E. 71st St.

Platinum Bichloride*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Plumbago*N. Y., New York City*

*Baker & Bro., H. J., 81 Fulton St

*Dunn & Kruse, 53 Park Row

*Fuerst Bros. & Co., 2 Stone St.

Ponceau*N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave

Potash (*see Potassium Carbonate and also Potassium Salts*)**Potassium***Mich., Menominee*

*Michigan Electrochemical Co., N. State St.

Potassium Acetate*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

*Cooper & Co., Charles, 194 Worth St.

*Merck & Co., 45 Park Place

*Squibb & Sons, R. E., 82 Beekman St.

Pa., Philadelphia

Powers-Weightmann-Rosengarten Co.

*Thomas Co., Arthur H., W. Washington Square

Potassium Acid Tartrate*Cal., San Francisco*

California Wine Association

Tartar Chemical Co

England, Accrington

Phoenix Chemical Co., Ltd., Jackson St., Church

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Stickney & Poor Spice Co., 184 State St.

N. J., Passaic

Wolf & Co., Jacques, 342 Lexington Ave.

N. Y., New York City

*Herrick-Voigt Chemical Corporation, 1 Liberty St.

Merck & Co., 45 Park Place

Pfizer & Co., Charles, Inc., 81 Maiden Lane

Tartar Chemical Co., 135 William St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Spain, Barcelona

Sociedad Anonima Monegal, Apartado Correos. No 144

Potassium Alum (*see Potassium Aluminium Sulphate*)**Potassium Aluminate***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Potassium Aluminium Sulphate*Cal., Berkeley*

Pacific Guano and Fertilizer Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

England, Liverpool

Haddock, Parker & Co., 14 Chapel St.

England, Manchester

Spence & Sons, Ltd., Peter

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

American Smelting & Refining Co., 120 Broadway

Edgertyn Aniline Corp., 118 William St.

*Fuerst Bros. & Co., 2 Stone St.

General Chemical Co., 25 Broad St.

Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Potassium Antimoniate*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

**Potassium Antimonyl Tartrate
(Tartar Emetic)***N. Y., New York City*

Pfizer & Co., Inc., Chas., 81 Maiden Lane

Potassium Bicarbonate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

*Halle-Perris Trading Corporation, 21 State St.

Innis, Speiden & Co., Inc., 46 Cliff St.

McKesson & Robbins, 91 Fulton St.

Merek & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

*Schieffelin & Co., 170 William St.

White Tar Co., 6 Cliff St.

Pa., Philadelphia

Cooper, T. G., & Co., 47-49 N. 2d St.

Powers-Weightman-Rosengarten Co.

**Potassium Bicarbonate, Cryst.
U. S. P.***N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Potassium Bichromate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

United Indigo & Chemical Co., 176 Federal St.

N. J., Jersey City

Natural Products Refining Co.

N. Y., Brooklyn

*Wanda & Co., John C., 273 Green St.

N. Y., New York City

Cooper & Co., Chas., 194 Worth St.

General Chemical Co., 25 Broad St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

Mutual Chemical Co. of America, 55 John St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Squibb & Sons, E. R., 80 Beekman St.

Takamine Laboratory, Inc., 120 Broadway

White Tar Co., 6 Cliff St.

N. Y., Niagara Falls

National Electrolytic Co.

Ohio, Cleveland

Grasselli Chemical Co.

*Harshaw, Fuller & Goodwin Co., Electric Bldg.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

R. I., Providence

*Lewis, John D., 1209 Turks Head Bldg.

Potassium Binoxalate*England, London*

Berk & Co., Ltd., F. W., Fenchurch

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Katzenbach & Bullock Co., 100 William St.

Roessler & Hasslacher Chemical Co., 100 William St.

Potassium Bisilicate*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Potassium Bisulphite*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

General Chemical Co., 25 Broad St.

Roessler & Hasslacher Chemical Co., 100 William St.

Potassium Bromate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Midland

Dow Chemical Co.

Potassium Bromide*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

Mich., Midland

Dow Chemical Co.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Heyden Chemical Works, 135 William St.

*Huisling, Inc., Chas L., 5 Platt St.

National Aniline & Chemical Co., 21 Burling Slip

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Schenectady

Organic Products Corp., 469 State St.

Ohio, Pomeroy

Gracilif Chemical Co.

W. Va., Malden

Dickinson Co., J. Q.

Potassium Carbonate*Cal., San Francisco*

*Breslauer, A., 485 California St.

England, Liverpool

Haddock Parker & Co., 14 Chapel St.

England, London

Berk & Co., Ltd., F. W., Fenchurch Ave.

*Dexters, Ltd., 362 City Road

Ill., Chicago

Armour Fertilizer Works

*Daigger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., Jas. H., 153 W. Austin Ave.

N. J., Trenton

Utah Potash Co.

Nevada, Reno

Neo Mfg. Co., P. O. Box 672

N. Y., Brooklyn

Highfield, John W., 248 N. 10th St.

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Chemical Importing & Mfg. Co., 90 West St.

Cooper & Co., Charles, 194 Worth St.

Edgertyn Aniline Corp., 118 William St.

Freeman & Co., R. B., 96 Wall St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Kley, Inc., 39 Cortland St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

*Peters, White & Co., 55 John St.

Philip Bros., & Co., 29 Broadway

*Takamine Commercial Corporation, 120 Broadway

Van Brunt & Co., Inc., J. A., 114 John St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Potassium Chlorate*Cal., Pittsburgh*

Great Western Electrochemical Co.

Canada, Montreal, P. Q.

Canadian Electro Products Co., Ltd., 611 Power Bldg.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Metal Products Co., 100 S. Jefferson St.

Mass., Boston

*Linder & Meyer, 89 State St.

Mich., Bay City

North American Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Chemical Importing Mfg. Co., 90 West St.

Doherr, Grimm & Co., 87 Gold St.

Edgertyn Aniline Corp., 118 William St.

*Husking, Inc., Chas L., 5 Platt St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

McKesson & Robbins, Inc., 91 Fulton St.

Merck & Co., 45 Park Place

Monmouth Chemical Co., 106 Wall St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Suzuki & Co., 220 Broadway

N. Y., Niagara Falls

National Electrolytic Co.

Ohio, Rittman

Ohio Salt Co.

R. I., Providence

*Lewis, John D.

Potassium Chlorate, Crystals, Tech.*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Potassium Chloride*Cal., Los Angeles*

American Trona Corp.

Del., Wilmington

Hercules Powder Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Halle-Perris Trading Corporation, 24 State St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

Pacific Coast Borax Co., 100 William St.

Utah, Burmester

Salt Lake Chemical Co.

Potassium Chromate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Cooper, Chas., & Co., 194 Worth St.

*Klipstein, A., & Co., 644 Greenwich St.

*Merck & Co., 45 Park Place

*Squibb, E. R., & Sons 82 Beekman St.

Ohio, Columbus

*Harshaw, Fuller & Goodwin Co.

Potassium Citrate*Mo., St. Louis*Mallinckrodt Chemical Works, 3600 N.
2d St.*N. Y., New York City*Merck & Co., 45 Park Place
Pfizer & Co., Inc., Chas., 81 Maiden
Lane**Potassium Cyanide***Cal., San Francisco*

*Breslauer, A., 485 California St.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson
St.*Mass., New Bedford*

Davis Chemical Works, H. V.

*Mo., St. Louis*Mullinckrodt Chemical Co., 3600 N.
2d St.*N. Y., New York City*American Cyanamid Co., 511 Fifth
Ave.

*Baker & Bro., H. J., 81 Fulton St.

Cooper & Co., Charles, 194 Worth St.

*Klipstein & Co., A., 644 Greenwich
St.McKesson & Robbins, Inc., 91 Fulton
St.Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co.,
100 William St.*Ohio, Cleveland**Harshaw, Fuller & Goodwin Co.,
Electric Bldg.

Grasselli Chemical Co.

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Potassium Ferricyanide** (*see also**Potassium Prussiate*)*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
Broadway

Merck & Co., 45 Park Place

*Squibb & Sons, E. R., 80 Beekman St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

*Pa., Philadelphia*Bower Chemical Mfg. Co., Henry, 29th
and Grays Ferry RoadPowers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Potassium Ferrocyanide** (*see also*
Potassium Prussiate)*England, Liverpool*Haddock Parker & Co., 14 Chapel St.
*England, Manchester**Willcocks & Co., Ltd., H. S., 5 Beaver
St.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

Wiarda & Co. John C., 273 Greene St.

*N. Y., New York City*Innis, Speiden & Co., Inc., 46 Cliff St.
Marden, Orth & Hastings Corp'n, 61
Broadway

Merck & Co., 45 Park Place

Roessler & Hasslacher Chemical Co.,
100 William St.

*Squibb & Sons, E. R., 80 Beekman St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co.

Potassium Fluoride*Ohio, Cleveland*

Grasselli Chemical Co.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Potassium Glycerophosphate*Mo., St. Louis*Monsanto Chemical Works, 2d St. and
LaFayette Ave.**Potassium Hydroxide***Cal., Los Angeles**Bobrick Chemical Co., 111-117 S.
Garey St.*England, London*Berk & Co., Ltd., F. W., Fenchurch
Ave*Ill., Chicago*Chicago Copper & Chemical Co., 111
W. Jackson Place*Daigger & Co., A., 54 W. Kinzie St.
Laboratory Materials Co., 640 E. 71st
St.Rhodes & Co., James H., 157 Austin
Ave.*Neb., Omaha*

Potash Products Co.

N. J., Camden

Mechling Bros. & Co.

N. Y., Albany

Mendleson's Sons, A.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
& Washington Sts.

*Baker & Bro., H. J., 81 Fulton St.

*Campbell, C. W., 11 Cliff St.

Potassium Hydroxide—cont.

- N. Y., New York City—con't.*
 Hoffman-LaRoche Chemical Works,
 440 Washington St.
 Hooker Electrochemical Co., 40 Wall
 St.
 *Innis, Speiden & Co., Inc., 46 Cliff St.
 *Kley, Inc., 39 Cortland St.
 *Klipstein & Co., A., 644 Greenwich
 St.
 Marden, Orth & Hastings Corp'n, 61
 Broadway
 Merck & Co., 45 Park Place
 Roessler & Hasslacher Chemical
 Works, 100 William St.
 Squibb & Sons, E. R., 80 Beekman St.
 White Tar Co., 6 Cliff St.
N. Y., Niagara Falls
 Niagara Alkali Co., Buffalo Ave. &
 Union St.
N. Y., Solvay
 Solvay Process Co.
Pa., Philadelphia
 Powers-Weightman-Rosengarten Co.
 9th and Parrish Sts.
R. I., Providence
 Arnold, Hoffman & Co., 55 Canal St.
 *Lewis, John D.

Potassium Hypochlorite

- Mo., St. Louis*
 *Hell, Henry, Chemical Co., 210-214
 S. 4th St.
Pa., Philadelphia
 *Thomas, Arthur H., Co., W. Wash-
 ington Square
Pa., Pittsburgh
 *Scientific Materials Co., 711-19
 Forbes St.

Potassium Iodide

- Mo., St. Louis*
 Mallinckrodt Chemical Works, 3600
 N. 2d St.
N. Y., Albany
 Albany Chemical Co.
N. Y., New York City
 Merck & Co., 45 Park Place
 New York Quinine & Chemical Works,
 114 William St.
 Pfizer & Co., Inc., Chas., 81 Maiden
 Lane
 Squibb & Sons, E. R., 80 Beekman St.
 Suzuki & Co., S., 13 Park Row (Plant:
 Tokyo, Japan)
 Takamine Laboratory, Inc., 120
 Broadway

Potassium Metabisulphite

- England, Wolverhampton*
 Bailey & Son, William

- N. Y., New York City*
 Cooper & Co., Chas., 194 Worth St.
 Innis, Speiden & Co., Inc., 46 Cliff St.
 *Klipstein & Co., A., 644 Greenwich
 St.
 Merck & Co., 45 Park Place
 Roessler & Hasslacher Chemical Co.,
 100 William St.
 *Schering & Glatz, 150 Maiden Lane

Potassium Muriate (see Potassium Chloride)**Potassium Nitrate**

- Del., Wilmington*
 Du Pont de Nemours Co., E. I.
Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
 Thorkildsen-Mather Co.
Md., Baltimore
 *Walter Co., Edw. J., 803 American
 Bldg.
Mass., Boston
 Merrimac Chemical Co., 33 Broad St.
Neb., Omaha
 Potash Products Co.
N. J., Trenton
 Utah Potash Co., The
N. Y., Brooklyn
 *Wiarda & Co., John C., 273 Green St.
N. Y., New York City
 *Alexander & Co., Inc., C. S., 61
 Broadway
 *Baker & Bro. H. J., 81 Fulton St.
 *Battelle & Renwick, 80 Maiden Lane
 *Drackett & Sons Co., P. W., 5020
 Spring Grove Ave.
 *Echavarria & Co. R., 8 Bridge St.
 Edgertyn Aniline Corp., 118 William
 St.
 *Klipstein & Co., A., 644 Greenwich
 St.
 Marden, Orth & Hastings Corp'n, 61
 Broadway
 Merck & Co., 45 Park Place
 *Suzuki & Co., S., 13 Park Row (Plant:
 Tokyo, Japan)
Potassium Oxalate
England, London, E. C. 3
 Berk & Co., Ltd., F. W., 1 Fenchurch
 Ave.
Pa., Bradford
 American Alkali & Acid Co.
Potassium Oxide
Del., Wilmington
 Du Pont de Nemours & Co., E. I.
Nebr., Omaha
 Potash Products Co.
N. J., Trenton
 Utah Potash Co.

Potassium Perchlorate*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Potassium Permanganate*Ill., Chicago*

Armour Fertilizer Works, Union Stock Yards

*Daigger & Co., A., 52-56 W. Kinzie St.

*Laboratory Materials Co., 640 E. 71st St.

Ill., La Salle

Carus Chemical Co.

N. J., Perth Amboy

General Supply Co., Market St. & Bertrand Ave.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Analine Dyes & Chemicals, Inc., Cedar & Washington Sts.

*Baker Bro., H. J., 81 Fulton St.

Chemical Co. of America

Edgertyn Aniline Corp., 118 William St.

Heyden Chemical Works, 135 William St.

*Huisking, Inc., Chas. L., 5 Platt St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Roessler & Hasslacher Chemical Co., 100 William St.

Takamine Laboratory, Inc., 120 Broadway

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

Niagara Alkali Co., Buffalo Ave. & Union St.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Potassium Peroxide*Mo., St. Louis*

*Heil, Henry, Chemical Co., 210-214 S. 4th St.

Pa., Philadelphia

*Thomas, Arthur H., Co., W. Washington Square

Pa., Pittsburgh

*Scientific Materials Co., 711-19 Forbes St.

Potassium Phosphate U. S. P.*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Potassium Prussiate (see also*Potassium Ferri- and Ferrocyanides*)*England, London*

*Dexter's, Ltd., 362 City Road

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Edgertyn Aniline Corp., 118 William St.

Eissing Chemical Co. (Red), 225 5th Ave.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Roessler-Hasslacher Chemical Co., 100 William St.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Potassium Prussiate, Red (see *Potassium Ferricyanide*)**Potassium Pyrosulphite***N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Potassium Salts (These companies recover Potassium Salts from various sources, natural and otherwise)*Cal., Agnew*

Western Industries Co.

Cal., Borosolway

Solvay Process Co.

Cal., Chula Vista

Hercules Powder Co.

Cal., Long Beach

International Potash Products Co.

Cal., Los Angeles

National Kelp Products Co.

Pacific Products Co.

Sirch Electrical & Testing Laboratories

Cal., Owens Lake

California Alkali Co.

Cal., Pasadena

American Products Co.

Cal., Riverside

Riverside Portland Cement Co.

Cal., San Diego

Swift & Co.

Cal., Santa Cruz

Santa Cruz Portland Cement Co.

U. S. Dept. of Agric., Experimental Plant

Cal., Trona

American Trona Corp.

Cal., Wilmington

Diamond Match Co.

Canada, B. C., Queen Charlotte Islands

International Chemical Co.

Canada, Ontario, Gravenhurst

Canadian Potash Corp.

Ill., Chicago

Armour Fertilizer Works.

Potassium Salts—cont.

- Md., Hagerstown*
Security Cement & Lime Co.
- Mo., St. Louis*
Alunite Co. of America
- Neb., Alliance*
Potash Product Co.
- Neb., Antioch*
American Potash Co.
Nebraska Potash Works Co.
- Neb., Hoffman*
Potash Products Corp.
- Neb., Lakeside*
Hord Alkali Product Co.
- Neb., Omaha*
American Potash Co.
- Neb., Sheridan Co.*
Western Potash Co.
- N. J., Trenton*
Utah Potash Co.
- N. Y., Buffalo*
Buffalo Potash & Cement Corp.
- N. Y., Jones Point*
Kaolin Products Co.
- N. Y., Mechanicville*
Werner Extract Co.
- N. Y., New York City*
American Agricultural Chemical Co.,
2 Rector St.
International Agricultural Corpora-
tion, 165 Broadway
Nitrate Agencies Co.
Suziki & Co., S., 13 Park Row (Plant:
Tokyo, Japan)
- Pa., Stockertown*
Atlantic Potash Co.
- Okl., Sand Springs*
Mid Continent Chemical Co.
- Tenn., Kingsport*
Cinchfield Portland Cement Corp.
- Utah, Marysvale*
Caraleigh Phosphate & Fertilizer
Works
- Utah, Salt Lake City*
Utah Chemical Co.
- Utah, St. Marysvale*
Mineral Products Co.

Potassium Silicate

- N. Y., New York City*
Roessler & Hasslacher Chemical Co.,
100 William St.

Potassium Sulphate

- Cal., Santa Cruz*
Santa Cruz Portland Cement Co.
- England, Accrington*
Phoenix Chemical Co., Ltd., Jackson
St. Church
- Ill., Chicago*
Armour Fertilizer Works, Union Stock
Yards
*Daigger & Co., A., 54 W. Kinzie St.

- La., New Orleans*
Standard Guano & Chemical Mfg. Co.,
Whitney Central Bldg.
- N. Y., New York City*
*Baker & Bro., H. J., 81 Fulton St.
Marden, Orth & Hastings Corp'n, 61
Broadway
Merck & Co., 45 Park Place

Potassium Sulphide

- Ill., Chicago*
*Daigger & Co., A., 54 W. Kinzie St.
- N. Y., Brooklyn*
Wiarda & Co., John C.
- N. Y., New York City*
*Klipstein & Co., A., 644 Greenwich
St.

Potassium Sulphite

- Ill., Chicago*
*Daigger & Co., A., 54 W. Kinzie St.
- Mo., St. Louis*
*Heil, Henry, Chemical Co., 210-214
S. 4th St.
- Pa., Philadelphia*
*Thomas, Arthur H., Co., W. Wash-
ington Square
- Pa., Pittsburgh*
*Scientific Materials Co., 711-19
Forbes St.

**Potassium Sulphocyanide (see
Potassium Sulphocyanate)****Potassium Sulphocyanate**

- Mo., St. Louis*
*Heil, Henry, Chemical Co., 210-214
S. 4th St.
- N. Y., New York City*
*Klipstein & Co., A., 644 Greenwich
St.
Merck & Co., 45 Park Pl.
Squibb & Sons, E. R., 80 Beckman St.

**Potassium Sulphonate, Creo-
sote**

- N. Y., New York City*
Heyden Chemical Works, 135 William
St.

**Potassium Sulphonate, Guaia-
col**

- N. Y., New York City*
Heyden Chemical Works, 135 William
St.

Powder, Blasting

- N. Y., New York City*
Rendrock Powder Co., 106 Wall St.

Powder Blue*N. Y., Brooklyn*

Wiarda & Co., John C., 273 Green St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Powder, Putty*Ohio, Cleveland*

Harshaw, Fuller & Goodwin Co.

Primuline*Mass., Boston*

Jennings & Co., Inc., 93 Broad St.

N. J., Bound Brook

Peerless Color Co., Inc.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

N. Y., North Tonawanda

Synthetic Products Co.

Procaine*N. Y., New York City*

Rector Chemical Co., Inc., 2 Rector St.

Prussian Blue (see Blue, Prussian)**Prussiate of Potash, Red (see***Potassium Ferricyanide)***Prussiate of Potash, Yellow (see***Potassium Ferrocyanide)***Prussiate of Soda, Red (see Sodium***Ferricyanide)***Prussiate of Soda, Yellow (see***Sodium Ferrocyanide)***Pulp Filter***N. Y., New York City*

Schwenker, Inc., W. M., 340-344 E 92d St

Pulp Products*N. J., Trenton*

Universal Fiber Co.

Pulp Sulphite*Me., Bangor*

Eastern Mfg. Co.

Pa., Erie

Hammermill Paper Co.

Pumice Stone*Cal., Los Angeles*

Pacific Mineral Products Co.

Ill., Chicago

American Pumice Co.

*Daigger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., James H., 157 W. Austin Ave.

N. Y., Brooklyn

*Guiseppe Ferlazzo Co.

*Miner, Thornton Co.

N. Y., New York City

*Chrystal, Chas. B., 11 Cliff St.

*Dunn & Kruse, 53 Park Row

*Waddell, R. J., & Co., 56 Beekman St.

*Whittaker, W. H., Co., 252 Front St.

Pumice Stone, Italian*N. Y., Brooklyn*

*Wiarda & Co., John C., 273 Green St.

Purple, Copper*N. Y., New York City*

*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Putty, Asphalt*Pa., Philadelphia*

Barber Asphalt Paving Co., Land Title Bldg.

Putty Powder*N. Y., Brooklyn*

*Wiarda & Co., John C., 273 Green St.

Pyrites*Cal., San Francisco*

Mountain Copper Co., Ltd., 332 Pine St.

N. Y., Hermon

St. Lawrence Pyrites Co.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

Butterworth Judson Corporation, 61 Broadway

Maiden, Orth, Hastings Corp'n

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., 1000 Widener Bldg.

Va., Norfolk

Royster Guano Co., F. S.

Va., Richmond

Va.-Carolina Chem. Co.

Pyrolusite (see Manganese Dioxide)**Pyroxylin Compounds***Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Pyroxlin, Nitrocellulose Solution*Ohio, Cincinnati*

*Fries & Fries, 1501-13 W. 6th St.

Pyroxylin, Special Solutions*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Pyridine*N. Y., New York City*

Barrett Co., 17 Battery Pl.

*Klipstein & Co., A., 644 Greenwich St.

Pa., Philadelphia, Frankford

National Ammonia Co. of Pa., Del. Ave. & Van Kirk St.

Pyrozone*N. Y., New York City*

McKesson & Robbins, Inc., 91 Fulton St.

Pyxol*N. Y., New York City*

Barrett Co., 17 Battery Pl.

Quartz*Conn., New Milford*

Bridgeport Wood Finishing Co.

Ill., Chicago

Rhodes & Co., Jas. H., 157 W. Austin Ave.

Md., Baltimore

Maryland Quartz Co., 10 E. Lexington St.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

General Mineral Co., Inc., 157 Cedar St.

New England Quartz Co. of N. Y., 150 Nassau St.

Schaaf-Regelman, E., 220 Broadway

N. C., Penland

Carolina Mineral Co.

Pa., Philadelphia

Baeder, Adamson & Co., Richmond St. and Allegheny Ave.

Querbracho Extract (see Extract Quebracho)**Quercitron Extract (see Extract Quercitron)****Quercitron Solid***N. J., Camden*

Taylor, White Extracting Co., Cooper River and Pine St.

Quicksilver (see Mercury)**Quinine***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Alexander & Co., Inc., C. D., 61 Broadway

*Echavarria & Co., R., 8 Bridge St.
New York Quinine & Chemical Works, Ltd., 100 William St.

Takamine Laboratory, Inc., 120 Broadway

Quinine Sulphate*N. Y., New York City*

*Echavarria & Co., R., 8 Bridge St.

*Freeman & Co., R. B., 96 Wall St.

Radium*Colo., Denver*

Colorado Radium Products Co.

Radium Co. of Colorado

Colo., Montrose

*Willmarth, O. Barlow, Keller Bldg.

Ill., Chicago

Carnotite Production Co.

N. Y., New York City

*Palo Co., 90-94 Maiden Lane

Radium Ltd., U. S. A., 2 W. 45th St.

Pa., Pittsburgh

Radium Chemical Co.

Standard Chemical Co., Vanadium Bldg.

Radium Bromide*Colo., Denver*

Chemical Products Co., 612 Majestic Bldg.

Radium Chloride*Colo., Denver*

Chemical Products Co., 612 Majestic Bldg.

Radium Ore*Colo., Montrose*

Willmarth, O. Barlow, Keller Bldg.

Radium Salts*Colo., Denver*

Colorado Radium Products Co.

Radium Co. of Colorado

Colo., Montrose

*Willmarth, O. Barlow, Keller Bldg.

Ill., Chicago

Carnotite Production Co.

N. Y., New York City

*Palo Co., 90-94 Maiden Lane

Radium Ltd., U. S. A., 2 W. 45th St.

Pa., Pittsburgh

Radium Chemical Co.

Radium Luminous Material Corporation, 55 Liberty St.

Standard Chemical Co., Vanadium Bldg.

Reagents, Chemical (see Chemicals, Laboratory)**Realgar (see Arsenic Sulphide)**

Red, Alizarine S.*Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Red, Congo***N. J., Perth Amboy*General Supply Co., Market St. and
Bertrand Ave.*N. Y., New York City**Hellenic Chemical & Color Co., Inc.,
1 Cedar St.*Pa., Philadelphia*

Harmer Laboratories Co.

Red Congo, 4B*Pa., Reading*Althouse Chemical Co., 500-540 Pear
St.**Red, Chrome***Pa., Reading*Althouse Chemical Co., 500-540 Pear
St.**Red, Direct Imperial***R. I., Providence*Agawam Chemical Works, 10 Weybos-
set St.**Red, Direct Salmon***R. I., Providence*Agawam Chemical Works, 10 Weybos-
set St.**Red, Fast A***N. J., Perth Amboy*General Supply Co., Market St. and
Bertrand Ave.**Red, Indian***N. Y., New York City*

*Chrystal, Charles B., 11 Cliff St.

Red, Lithol R*Cal., San Francisco*California Aniline & Chemical Co., 33
Clementina St.**Red, Methyl***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Red, Neutral***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Red, Para***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Stresen-Reuter & Hancock, Inc., 1501
S. Peoria St.*N. Y., New York City*Hellenic Chemical & Color Co., Inc.,
1 Cedar St.*N. Y., Glen Falls*

Imperial Color Works, Inc., Warren St.

Red, Toluylene*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Red, Venetian***England, Liverpool*

Haddock Parker & Co., 14 Chapel St.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

Redmanol*Ill., Chicago*Redmanol Chemical Products Co., 628
W. 22d St.**Residium***Cal., Los Angeles*

General Petroleum Corp.

Union Oil Co. of California

Ohio, Toledo

Paragon Refining Co.

Texas, Mineral Wells.

Texas Carlsbad Water Co.

Resinates*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Scheel, Wm. H., 159 Maiden Lane

*Tennant C., Sons & Co., 100 William
St.

Toch Bros., 330 5th Ave.

Tenn., Sweetwater

Durex Chemical Works

Resinoids*N. Y., New York City*

McKesson & Robbins, 91 Fulton St.

Sharp & Dohme

*Pa., Philadelphia*Hance Bros. & White, 621 Callowhill
St.**Resins***N. Y., Norwich*

Norwich Pharmacal Co.

Resins, Jalap*N. Y., Norwich*

Norwich Pharmacal Co.

Resins, Paracumaron*N. Y., New York City*

Barrett Co., The, 17 Battery Pl.

Pa., Philadelphia

Cambria Steel Co., Widener Bldg.

Resins, Scammony

N. Y., Norwich
Norwich Pharmacal Co.

Resorcin

Conn., Stamford
American Synthetic Color Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600
N. 2d St.
N. J., Bound Brook
American Chemical Products Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Aetna Explosives Co., 120 Broadway
Analine Dyes & Chemicals, Inc., Cedar
and Washington Sts.
Barrett Co., The, 17 Battery Pl.
Edgertyn Aniline Corp., 118 William
St.
Hoffman-La Roche Chemical Works,
440 Washington St.
National Aniline & Chemical Co., Inc.,
21 Burling Slip
Republic Trading Co., 80 South St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cincinnati
Fries & Fries, 121 W. 3rd St.
Pa., Carnegie
Aetna Chemical Co.
Pa., Philadelphia
Harmer Laboratories Co.

Resorcinol (*see Resorcin*)**Rhodamines**

N. Y., Monticello
Mont Color & Chemical Co.

Rhodinol

N. Y., New York City
Florasynth Laboratories, Inc., 231
Pearl St.

Rhodium Chloride

N. J., Newark
American Platinum Works, 225 231
New Jersey R. R. Ave.

Rhotanium

N. Y., New York City
*Palo Co., 90-94 Maiden Lane

Rochelle Salts (*see Sodium Potassium Tartrate*)**Rock Crystal**

N. Y., New York City
*Diamond Drill Carbon Co., 53-63
Park Row

Rock Crystal, Brazilian

N. Y., New York City
*Diamond Drill Carbon Co., 53-63
Park Row

Rosaniline Base

Ill., Chicago
Research Laboratory of Chicago, 467
E. Ontario St.

Rosaniline Hydrochloride

Ill., Chicago
Research Laboratory of Chicago, 467
E. Ontario St.
Pa., Philadelphia
Harmer Laboratories Co.

Rosin

Ala., Mobile
Taylor, Loewenstein & Co.
Cal., San Francisco
*Breslauer, A., 485 California St.
Horstman, John Co., 685 Bryant Ave.
Fla., Jacksonville
Peninsular Naval Stores Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Savannah
Producers Naval Stores Co.
Standard Naval Stores Co.
Antwerp Naval Stores Co.
London & Savannah Naval Stores Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ky., Louisville
Standard Oil Co.
La., Elizabeth
Producers Turpentine Co.
La., New Orleans
American Turpentine & Tar Co.
Union Naval Stores Co., Whitney
Bldg.
Md., Baltimore
*Webb & Sons, A. L., 115 E. Lombard
St.
Mich., Menominee
*Michigan Electrochemical Co., N.
State St.
N. Y., New York City
Arabol Mfg. Co., 109 William St.
Edgertyn Aniline Corp., 118 William
St.
General Naval Stores Co., 90 West St.
*Klipstein & Co., A., 644 Greenwich
St.
United Naval Stores Co., 130 Pearl St.
N. C., Wilmington
National Wood Products Co.
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Texas, New Willard
New Willard Naval Stores Co.
Wis., Milwaukee
Newport Turpentine & Rosin Co., 1112
First National Bank Bldg.

Rosin, Hardening Powder for*Pa., Philadelphia*

Meyer & Sons. J., 480 Bourse Bldg.

Rosin, Powdered*N. Y., New York City*

*Blanchard, J. A., Co., 30 Church St.

*Hillier's, R., Son & Co., 100 William St.

Pa., Philadelphia

*McIlvaine Bros., 1500 Hamilton St.

Rosin Size*Ga., Savannah*

National Rosin Oil & Size Co.

Mich., Kalamazoo

Western Paper Makers Chemical Co.

La., New Orleans

American Turpentine & Tar Co.

N. Y., New York City

*Scheel, Wm. H., 159 Maiden Lane

Rosin Size, Soluble*N. Y., New York City*

Arabol Mfg. Co., 100 William St.

Rosin, Soap*Ga., Savannah*

National Rosin Oil & Size Co.

N. Y., New York City

Blanchard, J. A., & Co., 30 Church St.

Rosophenine, S. G.*N. Y., Cook's Falls*

Beaverkill Color & Chemical Co., The

Rubber Cement (see Cement, Rubber)**Rubber, Crude***Cal., San Francisco*

Moore, Geo. A., & Co., 212 California Ave.

Mich., Detroit

Mexican Crude Rubber Co., Penobscot Bldg.

N. Y., New York City

Amsinck, G., & Co., Inc.

*Arnold & Zeiss, 277 Broadway

General Rubber Co., Broadway and 58th St.

*Gough, Wallace L., Co., 10 Bridge St.

*Hagemeyer & Brunn, Produce Exchange

*Marquardt & Co., H., Inc., 35 S. William St.

*Maurer, Edw., 80 Maiden Lane

*Mecke & Co., 24 State St.

*Meyer & Brown, 35 S. William St.

Rubber Trading Co., 38 Murray St.

*Sembrada & Co., J. S., 129 Front St.

Pa., Erie

Continental Rubber Works

Rubber, Hard*Conn., Bridgeport*

Canfield Rubber Co., 129 Garden St.

Mass., Andover

Tyler Rubber Co.

Mass., N. Brookfield

Quabang Rubber Co.

N. J., Newark

Rubber & Celluloid Products Co., 56 Ferry St.

N. J., Trenton

Luzerne Rubber Co.

Stokes, Jos., Rubber Co.

N. Y., New York City

American Hard Rubber Co., 9 Mercer St.

U. S. Rubber Co., Broadway

Vulcanized Rubber Co., 251 4th Ave.

Ohio, Akron

Faultless Rubber Co.

Goodrich Co., B. F.

Goodyear Tire & Rubber Co.

Ohio, Cleveland

Consumers' Rubber Co., 829 Superior Ave., N. W.

R. I., Providence

Davol Rubber Co.

Wis., Milwaukee

Federal Rubber Co.

Ruthenium Chloride*N. J., Newark*

American Platinum Works, 225-231 New Jersey R. Ave.

Rutile (see Titanium Dioxide)**Saccharin***Ill., Chicago*

*Daugger & Co., A., 54 W. Kinzie St.

Ill., La Salle

Carus Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 S. 2d St.

Monsanto Chemical Works, 2nd St. and LaFayette Ave

N. J., Newark

Verona Chemical Co.

*N. Y., Brooklyn*Fahlberg Saccharine Works of America
Zobel Color Works, Inc., 95-127 Ninth St.*N. Y., New York City*

American Condiments Co., 44 Vesey St.

*Baker & Bro., H. J., 81 Baker St.

*Echavarria & Co., R., 8 Bridge St.

Edgertyn Aniline Corp., 118 William St.

*Freeman & Co., R. B., 96 Wall St.

Fuller & Co., Ralph I., 4 Rector

Hoffman-La Roche Chemical Works,
440 Washington St.

Saccharin—cont.*N. Y., New York City—cont.*

Merck & Co., 45 Park Place

Southern Oil & Chemical Co., 15 Park Row

N. Y., Schenectady

Organic Products Corp., 469 State St.

N. Y., Ossining

Ossining Chemical Works

*Pa., Philadelphia*Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.**Saccharin Crystals***Mo., St. Louis*Monsanto Chemical Works, 2d St. and
LaFayette Ave.**Saccharin, Insoluble***Mo., St. Louis*Monsanto Chemical Works, 2d St. and
LaFayette Ave.**Saccharin, Soluble***Mo., St. Louis*Monsanto Chemical Works, 2d St. and
LaFayette Ave.**Safranine***N. Y., New York City*Reliance Aniline & Chemical Co., 299
Broadway*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.*Pennsylvania Color Mfg. Co., 248
Chestnut St.**Salacin***N. Y., New York City*McKesson & Robbins, Inc., 91 Fulton
St.**Sal Ammoniac (see Ammonium Chloride)****Salicyl Aldehyde***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Salol***England, London*American Commerce Co., Ltd., The,
19 St. Bride St.*Ill., Chicago*Laboratory Materials Co., 7404 Calu-
met Ave.*Mo., St. Louis*Mallinckrodt Chemical Works, 3600 N.
2nd St.Monsanto Chemical Works, 2nd St. and
LaFayette Ave.*N. Y., New York City*

Barrett Co., 17 Battery Place

Edgertyn Aniline Corp., 118 William
St.Heyden Chemical Works, 135 William
St.Marden, Orth & Hastings Corp'n, 61
BroadwaySouthern Oil & Chemical Co., 15 Park
Row

*Wood, Inc., J. Early, 21 Platt St.

Sal Soda (see Sodium Carbonate)**Salt, Bayer 2:8***N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.**Salt Cake (see Sodium Bisulphate)****Salt Crystals, Schlippe's***Conn., Naugatuck*

Naugatuck Chemical Co.

Salt, Effervescent*Ind., Indianapolis*

Lilly & Co., Eli, 224 E. McCarthy St.

Salt, G*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Salt, R*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Salt, R 2:3:6*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.**Salts, Iron Scale***N. Y., New York City*Pfizer & Co., Inc., Chas., 81 Maiden
Lane**Salt, Schaeffer's***N. Y., New York City*Chemical Co. of America, 28 Platt St.
Dye Products & Chemical Co., Inc.,
200 Fifth Ave.Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.*Ohio, Cleveland*

Sherwin-Williams Co.

Salts, Soldering*Ill., Chicago*Allen Co., L. B., 4545 N. Lincoln Ave.
Chicago Solder Co., 218 N. Union St.*Mass., Boston*

Ashley, F. C., & Co., 683 Atlantic Ave.

Mo., St. Louis

Corliss Supply Co., 1906 Olive St.

Saltpetre (*see Potassium Nitrate*)**Saltpetre, Chili** (*see Sodium Nitrate*)**Sand, Glass Makers***Ill., Chicago*

U. S. Silica Co., 122 S. Michigan Bldg.

Ind., Corville

Acme Glass Sand Co.

Md., Hancock

Pennsylvania Glass Sand Co.

Mich., Detroit

American Silica Co., Dime Bank Bldg.

Mo., Pacific

Pacific Glass Sand Co.

N. J., Bridgeton

Crystal Sand Co.

N. Y., Buffalo

Onondia Lime Co., Ltd., Peoples Bank Bldg.

Ohio, Niles

National Sand & Stone Co.

Ohio, Toledo

Toledo-Owens Glass Sand Co.

Toledo Stone & Glass Sand Co.

Pa., Pittsburgh

Pennsylvania Glass Sand Co.

Pittsburgh White Sand Co., Farmers Bank Bldg.

Wash., Seattle

Spokane Silica Co.

Sand, Quartz Filtration*Ill., Chicago*

United States Silica Co., 122 S. Michigan Ave

Scarlets, Acid (Wool)*Tenn., Kingsport*

Federal Dyestuff & Chemical Corp.

Scarlet, Chrome*Pa., Reading*

Althouse Chemical Co., 500-540 Pear St.

Scarlet, Chrome, Y*Pa., Reading*

Althouse Chemical Co., 500-540 Pear St.

Scarlet, Direct*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Scarlet, Direct Fast*Pa., Philadelphia*

*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Scarlet, Direct Fast, Y*Pa., Reading*

Althouse Chemical Co., 500-540 Pear St.

Scarlet, Direct Liberty*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Scarlet, Double Brilliant*N. Y., Cook's Falls*

Beaverkill Color & Chemical Co., The,

Scarlets, Newark*N. Y., New York City*

*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Scarlets, Ponceau*N. Y., New York City*

*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Scarlets, 2 R.N.*N. Y., New York City*

*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Selenium*N. J., Jersey City*

Import Chemical Co., 162 First St.

N. J., Perth Amboy

Raritan Copper Works

N. Y., New York City

American Smelting & Refining Co., 120 Broadway

Nichols Copper Co., 25 Broad St.

U. S. Metal Refining Co., 42 Broadway

U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Serums (*see Chemicals, Pharmaceutical*)**Shellac***Cal., San Francisco*

Dill-Crosssett, Inc., Postal Telegraph Bldg.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Ill., Chicago

Rhodes & Co., James H., 157 Austin Ave.

Mich., Detroit

Berry Bros., Inc.

Detroit White Lead Works, 560 Milwaukee Ave.

Shellac—cont.*N. J., Newark*

Murphy Varnish Co.

N. Y., New York City

Edison International Corporation, 165 Broadway

Longman & Martinez, 207 Pearl St.

*Marx & Rawolle, 100 William St.

Mitsui & Co., Ltd., 65 Broadway

Rogers-Pyatt Shellac Co., 81 Water St.

Standard Varnish Works, 10 West St.

U. S. Industrial Alcohol Co., 27 William St.

Pa., Philadelphia

Felton Sibley & Co., 136 N. 4th St.

Silex*N. J., Lincoln*

Atlas Mineral Products Co.

N. J., Trenton

Eureka Flint & Spar Co.

N. Y., New York City

*Dunn & Kruse, 53 Park Row

New England Quartz Co., 150 Nassau St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Salomon & Bro., L. A., 216 Pearl St.

Ohio, Cleveland

Grassell Chemical Co.

Pa., Philadelphia

Paxson Co.

Silica*Cal., Los Angeles*

Pacific Mineral Products Co.

Cal., San Francisco

Dill-Crosett, Inc., Postal Telegraph Bldg.

Ill., Chicago

Cudahy Packing Co., 111 W. Monroe St.

*Daigger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., James H., 157 Austin Ave.

United States Silica Co., 410 Peoples Gas Bldg.

N. J., Lincoln

Atlas Mineral Products Co., The

N. J., Trenton

Utah Potash Co., The

N. Y., Brooklyn

*Miner-Edgar Co., 52 Warren St.

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Dunn & Kruse, 53 Park Row

International Pulp Co., 41 Park Row

*Innis, Speiden & Co., Inc., 46 Cliff St.

Southern Oil & Chemical Co., 15 Park Row

Talc Products Co., 11 Pine St.

Pa., Philadelphia

Harbison Walker Refractories Co., Farmers Bank Bldg.

Silica, Crystal*Ill., Chicago*

United States Silica Co., 122 S. Michigan Ave.

Silica, Flint*Ill., Chicago*

United States Silica Co., 122 S. Michigan Ave.

Silica Gel*Md., Baltimore*

Davison Chemical Co., Garrett Bldg.

Silicon*Cal., San Francisco*

Noble Electric Steel Co., Hewes Bldg.

Ky., Ashland

Ashland Iron & Mining Co.

Mo., St. Louis

Midvale Mining & Mfg. Co.

N. Y., New York City

U. S. Alloys Corp., 30 E. 42d St.

N. Y., Niagara Falls

Carborundum Co.

Ohio, Jackson

Globe Iron Co.

Pa., Pittsburgh

Carnegie Steel Co.

Silicon Carbide*Mass., Boston*

Richards & Co., Inc., 200 Causeway St.

Mass., Cambridge

Exlon Co., The, 156 Sixth St

N. Y., Lockport

Electric Smelting & Aluminum Corp.

N. Y., New York City

Metal & Thermit Corporation, 120 Broadway

Silicon Dioxide (see Silica)**Silicon Sulphate***Mo., St. Louis*

*Heil, Henry, Chemical Co., 210-214 S. 4th St.

Pa., Philadelphia

*Thomas, Arthur H., Co., W. Washington Square

Silk, Artificial*N. Y., New York City*

Campbell, Metzger & Jacobson, 923 Broadway

Hirsch Sons, G., 890 Broadway

Ohio, Cleveland

Cleveland Art Silk Co.

Pa., Marcus Hook

American Viscose Co.

Sil-O-Cel

N. Y., New York City
Celite Products Co.

Silver

N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting, Refining & Mining Co., 120 Broadway

Silver Bromide

N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.

Silver Chloride

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.

N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
Heyden Chemical Works, 135 William St.
*Merck & Co., 45 Park Place

Silver Cyanide

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Heyden Chemical Works, 135 William St.

Silver Iodide

N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.

Silver Lactate

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Silver Nitrate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Glens Falls
Ames Chemical Works

N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Heyden Chemical Works, 135 William St.
Hoffman-La Roche Chemical Co., 440 Washington St.
Merck & Co., 45 Park Pl.
Powers-Weightman-Rosengarten Co.
Southern Oil & Chemical Co., 15 Park Row

Silver Nitrate, C. P.

N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.

Silver Oxide, C. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Silver Sulphuret

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Size, Wall Paper-P

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Sizing, Glasgow

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Sizings, All Kinds

Md., Baltimore
Bloede, Victor G., Co.
Mass., Boston
Feculose Co., 293 Atlantic Ave.

Mich., Huron
Huron Milling Co.

N. J., Harrison
National Oil Products Co.

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.

Sizing's Specialties Co., Inc.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Corn Products Refining Co., 17 Battery Pl.

Edgertyn Aniline Corp., 118 William St.

Herrick-Voigt Chemical Corporation, 1 Liberty St.

*Innis, Speiden & Co., 46 Cliff St.

Kalle Color & Chemical Co., 530 Canal St.

*Klipstein & Co., A., 644 Greenwich St.

Malt Diatase Co., 79 Wall St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

Sizings, Paper

Mass., Ayer
Feculose Co. of America

Sizings, Textile

Mass., Ayer
Feculose Co. of America

N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.

Slate, Granulations

N. J., Lincoln
Atlas Mineral Products Co.

Soap Makers' Raw Materials*Ill., Chicago*

Armour & Co.

Cudahy Packing Co., 111 W. Monroe St.

*Daigger & Co. A., 54 W. Kinzie St.

Standard Oil Co.

Swift & Co.

Wilson & Co.

N. J., Harrison

National Oil Products Co.

N. Y., New York City

American Cotton Oil Co., 27 Beaver St.

Arabol Mfg. Co.

*Chi is, Antoine, Co., 20 Platt St.

*Compagnie Morana, 184 Fifth Ave.

*Dodge & Olcott Co., 87 Fulton St.

*Fritzsche Bros., 82 Beekman St.

*Gross & Co., Geo. V., 30 Old Slip Ave.

*Heine & Co., 9 Platt St.

*L eders, Geo., & Co., 18 Pearl St

*Magnus, Maybee & Reynard, 257 Pearl St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Pacific Coast Borax Co., 100 William St.

Plymouth Organic Laboratories, 65 Ann St.

*Rockhill & Victor, 22 Cliff St.

*Ungerer & Co., 273 Pearl St.

*Van Dyk & Co., 6 Platt St.

R. I., Woonsocket

Standard Soap Mfg. Co.

Soap, Monoline*Mass., Atlantic*

Bosson & Lane

Soapstone*Cal., Los Angeles*

Pacific Mineral Products Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Eastern Talc Co.

N. J., Lincoln

Atlas Minera' Products Co., The

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

*Baker, H. J., & Bro., 100 William St.

*Binney & Smith Co., 81 Fulton St.

Talc Products Co., 11 Pine St.

Pa., Easton

Williams & Co., C. K.

Pa., Philadelphia

Paxson Co.

Tenn., Chattanooga

American Lava Co.

Soap, Tetrelyn*Mass., Atlantic*

Bosson & Lane

Soda (see Sodium Carbonate)**Soda Ash (see Sodium Carbonate)****Soda, Caustic (see Sodium Hydroxide)****Sodas, Modified (So-called Neutral Sodas)***N. Y., Syracuse*

Solvay Process Co.

Soda, Sulphuret (see Sodium Sulphide)**Sodium Acetate***Canada, Montreal, P. Q.*

Canadian Electro Products Co., Ltd., 611 Power Bldg.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Merrimac Chemical Co., 32 Broad St.

Mich., Detroit

Charcoal Co. of America

Mo., St. Louis

Mallinckrodt Chemical Works

N. J., Wallington

Anderson Chemical Co.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Chemical Co. of America, Inc., 176

Front St

Edgertyn Aniline Corp., 118 William St.

Edison International Corporation, 165 Broadway

General Chemical Co., 25 Broad St.

*Halle-Perris Trading Corporation, 24 State St.

Herrick-Voigt Chemical Corporation, 1 Liberty St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Kalbfleisch Corp., 31 Union Square, W.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

White Tar Co., 6 Cliff St.

N. Y., Niagara Falls

National Electrolytic Co.

Ohio, Cleveland

Grasselli Chemical Co.

Harshaw, Fuller & Goodwin Co., 317

Electric Bldg.

Pa., Philadelphia

*Fergusson Bros., 109 Chestnut St.

R. I., Providence

*Lewis, John D.

Sodium Acid Sulphate (*see Sodium Bisulphate*)

Sodium Acid Sulphite (*see Sodium Bisulphite*)

Sodium Alizarine Mono-sulphonate

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Sodium Aluminate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.

N. Y., New York City
Merck & Co., 45 Park Place
Toch Bros., 320 5th Ave.

Ohio, Cleveland
Grasselli Chemical Co.

Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Aluminium Sulphate

Ill., Chicago
Victor Chemical Works, 1810 Fisher Bldg.

N. Y., New York City
General Chemical Co., 25 Broadway

Ohio, Cleveland
Grasselli Chemical Co.
Kalbfleisch Corporation, 31 W. Union Square

Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Antimoniate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Sodium Arsenate

Mass., Boston
Shaw, Juno., & Co.

Mich., Midland
Dow Chemical Co.

N. Y., New York City
Chipman Chemical Engineering Co., Inc., 95 Liberty St.

*Hemingway, Inc., Frank, 115 Broadway

Vreeland Chemical Co., 50 Church St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Benzoate

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Jersey City

Seydel Mfg Co., Forrest and Halliday Sts.

N. J., Ridgefield Park

British-American Chemical Co., Inc.

N. J., Newark

Stuart & Co., C. H.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

*Chromos Chemical Co., Inc., Aeolian Hall

*Doherr, Grimm & Co., 87 Gold St.

Edgertyn Aniline Corp., 118 William St.

Florasynth Laboratories, Inc., 231 Pearl St.

Heyden Chemical Works, 135 William St.

Hoffman-La Roche Chemical Works, 440 Washington St.

Merck & Co., 45 Park Place

Middlesex Aniline Co., Inc., 149 Broadway

National Aniline & Chemical Co., Inc., 21 Burling Slip

*Rector Chemical Co., Inc., 2 Rector St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

Niagara Alkali Co.

Ohio, Sandusky

Hord Color Products Co., The, S. Columbia Ave.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Sodium Bicarbonate

Cal., San Francisco

Stauffer Chemical Co.

*Breslauer, A., 485 California St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Victor Chemical Works, 1810 Fisher Bldg.

Md., Baltimore

*Maryland Chemical Co., Columbia Ave. & B. & O. R. R.

Thomsen Chemical Co., Race and Winder Sts.

Mich., Detroit

Michigan Alkali Co., 1622 Ford Bldg.

Mo., St. Louis

Lambert Chemical Co.

Mallinckrodt Chemical Works

Neb., Omaha

Standard Chemical Mfg. Co., 1312 Harney St.

Sodium Bicarbonate—cont.*N. Y., Brooklyn*

*Wiarda & Co., John, 273 Green St.

*N. Y., New York City*Church & Dwight Co., 27 Cedar St.
Cooper & Co., Charles, 194 Worth St.

*Echavarria & Co., R., 8 Bridge St.

Kalbfleisch Corp., 31 Union Square, W.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

*Nitrate Agencies Co., 102 Pearl St.

Squibb & Sons, R. E., 80 Beekman St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Syracuse

Solvay Process Co.

Ohio, Cincinnati

American Chemical Co.

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., Widener Bldg.

Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.

Tomson & Co., P. C., 1124 Girard Ave.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Va., Saltville

Mathieson Alkali Works, Inc., The

Sodium Bichromate*Cal., San Francisco*Dill-Crosett, Inc., Postal Telegraph
Bldg.*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

Bloede Co., Victor G

*Maryland Chemical Co., Columbia
Ave. & B. & O. R. R.*Mass., Boston**King & Co., Inc., E. & F., 367 Atlantic
Ave.*Mass., Worcester*

Brewer & Co.

*N. J., Jersey City*Natural Products Refining Co., 902-
910 Garfield Ave*N. Y., Brooklyn*

*Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
& Washington St.

*Baker & Bro., H. J., 81 Fulton St.

*Campbell, C. W., 11 Cliff St.

Cooper & Co., Charles, 194 Worth St.

Edgertyn Aniline Corp., 118 William
St.Franco-American Chemical Co., Inc.,
8 Gold St.

General Chemical Co., 25 Broad St.

Innis, Speiden & Co., Inc., 46 Cliff St.
Kalbfleisch Corp., 31 Union Square, W.

Kalle & Co., 530 Canal St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
BroadwayMutual Chemical Co. of America, 55
John St.

*Nitrate Agencies Co., 102 Pearl St.

Roessler & Hasslacher Chemical Co.,
100 William St.*Van Brunt & Co., Inc., J. A., 114 John
St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

National Electrolytic Co.

Ohio, Cleveland

Grasselli Chemical Co.

*Harshaw, Fuller & Goodwin Co.,
Electric Bldg.

Sherwin-Williams Co.

*Pa., Philadelphia*Harrison Works, 35th and Grays Ferry
Road

Foote Mineral Co., Inc., 120 N. 9th St.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

*Lewis, John D., 1209 Turks Head Bldg.

Sodium Bifluoride*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

General Chemical Co., 25 Broad St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Sodium Bismuthate*N. Y., New York City*

Holz, Herman A., 50 Church St.

Sodium Bisulphate*Colo., Denver*Western Chemical Mfg. Co., S. Osage
& W. Bayaud Sts.*Conn., Naugatuck*

Naugatuck Chemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Merrimac Chemical Co., 32 Broad St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*Butterworth-Judson Corp., 61 Broad-
way

General Chemical Co., 25 Broad St.

Kalbfleisch Corp., 31 Union Square, W.

New Jersey Zinc Co., 160 Front St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Sodium Bisulphate—*cont.*

Pa., Philadelphia
 Pennsylvania Salt Mfg. Co., Widener Bldg.
 Powers-Weightman-Rosengarten Co.,
 9th and Parrish Sts.
Scotland, Glasgow
 Barr, Ltd., James C., 27, Blythswood Road

Sodium Bisulphite

Conn., Naugatuck
 Naugatuck Chemical Co.
England, Wolverhampton
 Bailey & Sons, William
Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
 United Indigo & Chemical Co., 176 Federal St.
 Merrimac Chemical Co., 32 Broad St
Mass., Worcester
 Brewer & Co.
Mo., St. Louis
 Monsanto Chemical Works, 2nd St. & LaFayette Ave.
N. J., Camden
 Mechling Bros. Mfg. Co
N. Y., Brooklyn
 Wiarda & Co., John C., 273 Green St.
N. Y., New York City
 Cooper & Co., Chas., 194 Worth St.
 Edgertyn Aniline Corp., 118 William St
 General Chemical Co., 25 Broad St.
 Holliday, Read & Sons, 160 Franklin St
 Kalbfleisch Corp., 31 Union Square, W.
 *Klipstein & Co., A., 644 Greenwich St
 *Kuttruff, Pickhardt & Co., Inc., 128 Duane St
 Merek & Co., 45 Park Place
 Roessler & Hasslachner Chemical Co., 100 William St.
 Williamson & Co., D. D., 86 Fulton St.
Ohio, Cleveland
 Grasselli Chemical Co., Arcade Bldg.
R. I., Providence
 Arnold, Hoffman & Co., 55 Canal St.

Sodium Borate (*see Sodium Tetraborate*)**Sodium Bromate**

Mich., Midland
 Midland Chemical Co.

Sodium Bromide

Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
 Dow Chemical Co.

Mo., St. Louis
 Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. J., Maywood
 American Bromine Co.
N. Y., New York City
 *Baker & Bro., H. J., 81 Fulton St.
 Heyden Chemical Works, 135 William St.
 National Aniline & Chemical Co., 21 Burling Slip
N. Y., Schenectady
 Organic Products Corp., 469 State St.
Ohio, Pomeroy
 Gracilf Chemical Co.
W. Va., Malden
 Dickinson Co., J. Q.

Sodium Butyrate

Del., Wilmington
 Hercules Powder Co., 10th and Market Sts.

Sodium Cacodylate

Ill., Chicago
 Abbott Laboratories
N. Y., New York City
 *Fougera, E. & Co., 90-92 Beekman St.

Sodium Carbolate

Mass., Atlantic
 Bosson & Lane

Sodium Carbonate

Cal., San Francisco
 California Alkali Co.
 *Breslau, A., 485 California St.
England, Liverpool
 Haddock Parker & Co., 14 Chapel St.
Ill., Chicago
 Cudahy Packing Co., 111 W. Monroe St
 *Daigger & Co., A., 54-56 W. Kinzie St.
 Morton Salt Co., 80 E. Jackson Blvd.
Md., Baltimore
 *Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
 Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
 *King & Co., Inc., E. & F., 367 Atlantic Ave.
 Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
 Brewer & Co.
Mich., Detroit
 Michigan Alkali Co., 1622 Ford Bldg.
Mich., Menominee
 *Michigan Electro Chemical Co., N. State St.
N. J., Camden
 Mechling Bros. Mfg. Co.

Sodium Carbonate—cont.

- N. J., Jersey City*
Seydel Mfg. Co.
- N. Y., Brooklyn*
*Wiarda & Co., John C., 273 Green St.
- N. Y., New York City*
*Baker & Bro., H. J., 81 Fulton St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24 State St.
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Kalbfleisch Corp., 31 Union Square, W.
*Kley, Inc., 39 Cortlandt St.
*Klipstein & Co., A., 644 Greenwich St.
- Marden, Orth, Hastings Corp'n, 61 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Schell Chemical Co., Inc., 56 Pine St.
*Takamine Commercial Corporation, 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
- N. Y., Troy*
Thompson, Sons & Co., John L.
- Ohio, Cleveland*
Grasselli Chemical Co., Arcade Bldg.
- Ohio, Cincinnati*
American Chemical Co.
- Pa., Pittsburgh*
Diamond Alkali Co., First Nat. Bank Bldg.
- Pa., Philadelphia*
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
- R. I., Providence*
Arnold, Hoffman & Co., Inc., 55 Canal St.
- Va., Saltville*
Mathieson Alkali Co., Inc.

Sodium Chlorate

- Cal., San Francisco*
Great Western Electro Chemical Co.
- Ill., Chicago*
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
- Mich., Bay City*
North American Chemical Co.
- N. Y., Brooklyn*
*Wiarda & Co., John C., 273 Green St.
- N. Y., New York City*
*Campbell, C. W., 11 Cliff St.
Edgertyn Aniline Corporation, 118 William St.
Industrial Chemical Co., 200 Fifth Ave.

- Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
- Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
- Ohio, Cleveland*
Grasselli Chemical Co.
- R. I., Providence*
Arnold, Hoffman & Co., Inc., 55 Canal St.
*Lewis, John D., Turks Head Bldg.

Sodium Chloride, Pure, Technical

- N. Y., New York City*
Cooper & Co., Charles, 194 Worth St.
Independent Salt Co., 44 Whitehall St.

Sodium Chloride

- Ill., Chicago*
Morton Salt Co.
- Mich., Detroit*
Michigan Alkali Co., 1622 Ford Bldg.
- N. Y., Glen Falls*
Ames Chemical Works
- N. Y., New York City*
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Heyden Chemical Works, 135 William St.
Independent Salt Co., 44 Whitehall St.
*Pfizer & Co., Charles, 81 Maiden Lane
*Schwenker, Inc., W. M., 342 E. 92nd St.
*Wing & Evans, 22 William St.
- N. Y., Syracuse*
Solvay Process Co
- Ohio, Cleveland*
Grasselli Chemical Co.
- Pa., Philadelphia*
Pennsylvania Salt Mfg. Co.

Sodium Chromate

- N. Y., New York City*
Mutual Chemical Co. of America, 55 John St.

Sodium Citrate

- Mo., St. Louis*
Mallinckrodt Chemical Works, 3600 N. 2d St.
- N. Y., New York City*
Cooper & Co., Charles, 194 Worth St.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Squibb & Sons, R. E., 80 Beekman St.

Sodium Cyanide*Cal., San Francisco*

*Breslauer, A., 485 California St.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.*N. Y., New York City*

American Cyanamid Co., 511 5th Ave.

*Baker & Co., H. J., 81 Fulton St.

Edgertyn Aniline Corp., 118 William St

*Klipstein & Co., A., 644 Greenwich St.

McKesson & Robbins, Inc., 91 Fulton St.

Merck & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co.

R. I., Providence

Arnold, Hoffman & Co., Inc.

Sodium Ferricyanide (*see also**Sodium Prussiate*)*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Marden, Orth & Hastings Co., Inc., 61 Broadway

*Klipstein & Co., A., 644 Greenwich St.

N. Y., Syracuse

Semet-Solvay Co.

Pa., Philadelphia

Bower Chemical Mfg. Co., Henry

W. Va., Saltville

Mathieson Alkali Works, Inc.

Sodium Ferrocyanide (*see also**Sodium Prussiate*)*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Ind., Indianapolis

Citizens Gas Co., Majestic Bldg.

N. Y., New York City

Innis, Speiden & Co., Inc., 46 Cliff St.

Marden, Orth & Hastings Co., Inc., 61 Broadway

N. Y., Syracuse

Semet-Solvay Co.

Pa., Philadelphia

Bower Chemical Mfg. Co., Henry

R. I., Providence

Arnold, Hoffman & Co., Inc.

W. Va., Saltville

Mathieson Alkali Works, Inc.

Wash., Seattle

Seattle Lighting Co.

Sodium Fluoride*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., Brooklyn

Highfield, John W., 248 N. 10th St.

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

General Chemical Co., 25 Broad St.

Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co., Electric Bldg.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., Widener Bldg.

Sodium Fluosilicate*Ill., Chicago*

Armour Fertilizer Works, Union Stock Yards

Md., Baltimore

Davison Chemical Co., Garrett Bldg.

N. J., Jersey City

Import Chemical Co., 162 First St.

N. Y., New York City

Franco-American Chemical Co., Inc., 8 Gold St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Pa., Philadelphia

Baugh & Sons Co.

Pennsylvania Salt Mfg. Co., Widener Bldg.

Pa., Pittsburgh

Vitro Mfg. Co., 720 Bessemer Bldg.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Sodium Formate*N. Y., New York City*

General Chemical Co., 25 Broad St.

Herrick-Voigt Chemical Corporation, 1 Liberty St.

*Klipstein & Co., A., 644 Greenwich St.

N. Y., Syracuse

Rosebrugh Chemical Corporation, 1618 N. Salina St.

Sodium Glycerophosphate*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

Monsanto Chemical Works

N. Y., New York City

Cooper & Co., Charles., 194 Worth St.

Merck & Co., 45 Park Place

Sodium Gold Chloride*N. Y., Glens Falls*

Ames Chemical Works

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

Squibb & Sons, R. E., 80 Beekman St.

Sodium Hydroxide*Cal., San Francisco*

*Breslau, A., 485 California St.

Great Western Electrochemical Co.

England, London

*Dexters, Ltd., 362 City Road

England, Smithy Bridge, near Rochdale

Dearhead Chemical Co.

Ill., Chicago

Columbia Chemical Works of Chicago,

220 W. Huron St.

*Daigger & Co., A., 52-46 W. Kinzie St.

Metal Products Co., 100 S. Jefferson St.

Me., Bangor

Eastern Mfg. Co.

Maine, Portland

Electron Chemical Co., 534 Congress St.

Md., Baltimore

Thomsen Chemical Co., Race and Winder Sts.

Mass., Boston

*King & Co., Inc., E. & F., 367 Atlantic Ave.

Mi., Detroit

Michigan Alkali Co., 1622 Ford Bldg.

Mich., Menominee

Michigan Electro Chemical Co., N. State St.

Mich., Midland

Dow Chemical Co.

Mo., St. Louis

Lambert Chemical Co.

N. J., Jersey City

Seydel Mfg. Co.

N. Y., Albany

*Wander & Son Chemical Co., S., 13 Church St.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

Burroughs & Co., Jas. S., 56 Pine St.

Butterworth-Judson Corp., 61 Broadway

*Campbell, C. W., 11 Cliff St.

Castner Electrolytic Alkali Co., 120 Broadway

Cooper & Co., Charles, 194 Worth St.

*Echavarria & Co., R., 8 Bridge St.

Edgertyn Aniline Corp., 118 William St.

General Chemical Co., 25 Broad St.

*Harshaw, Fuller & Goodwin Co., 100 William St.

*Hellenic Chemical & Color Co., Inc., 1 Cedar St.

Hooker Electrochemical Co., 40 Wall St.

*Independent Chemical Co., 122 West St.

Industrial Chemical Co., 200 Fifth Ave.

*Innis, Speiden & Co., Inc., 46 Cliff St.

Kalle Color & Chemical Co., 530 Canal St.

*Kley, Inc., 39 Cortlandt St.

Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

National Aniline & Chemical Co., Inc., 21 Burling Slip

*Nitrate Agencies Co., 102 Pearl St.

Roessler & Hasslacher Chemical Co., 100 William St.

*Schell Chemical Co., Inc., 56 Pine St.

Southern Oil & Chemical Co., 15 Park Row

*Takamine Commercial Corporation, 120 Broadway

Warner Chemical Co., 52 Vanderbilt Ave.

*Williamson & Co., 120 Broadway

*Wing & Evans, 22 William St.

*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls

Castner Electrolytic Alkali Co.

Niagara Alkali Co., Buffalo Ave. and Union St.

Niagara Smelting Corp.

N. Y., Syracuse

Solvay Process Co.

Ohio, Cincinnati

Globe Chemical Co., 1135 Regent Ave.

*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Ohio, Cleveland

Clark Co., Fred G., 1099 W. 11th St.,

Grasselli Chemical Co., Arcade Bldg.

Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.

Pa., Philadelphia

Dill & Collins Co., Richmond and Tioga Sts.

*Fergusson Bros., 109 Chestnut St.

Hollingsworth & Peterson, Lafayette Bldg.

Penn Chemical Works, 1322 Washington Ave.

Pennsylvania Salt Mfg. Co., Widener Bldg.

Pa., Pittsburgh

Columbia Chemical Co.

Diamond Alkali Co.

Republic Chemical Co., Inc., P. O. Box 946

Republic Chemical Co. (Coraopolis)

Sodium Hydroxide—cont.*R. I., Providence*

Arnold, Hoffman & Co., 55 Canal St.

*Lewis, John D., 1209 Turks Head Bldg.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Va., Saltville

Mathieson Alkali Works, Inc., The

W. Va., Charleston

Rollin Chemical Co., Inc.

Scotland, Glasgow

Barr, Ltd., James C., 27 Blythswood Square

Tenn., Kingsport

Union Dye & Chemical Corporation

Sodium Hypochlorite*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

*Heil, Henry, Chemical Co., 210-214 S. 4th St.

N. Y., New York City

Hooker Electrochemical Co., 40 Wall St.

Warner Chemical Co., 52 Vanderbilt Ave

Woolf Laboratories, 230 Greenwich St.

N. Y., Niagara Falls

Niagara Alkali Co.

Pa., Philadelphia

Pennsylvania Salt Mfg. Co., Widener Bldg.

Wis., Madison

General Laboratories

Sodium Hypophosphite*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

Thomsen Chemical Co., Race and Winder Sts.

Mass., Boston

Merrimac Chemical Co., 32 Broad St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

General Chemical Co., 25 Broad St.

Merek & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Sodium Hyposulphite (see Sodium Thiosulphate)**Sodium Iodide***Mass., Boston*

Merrimac Chemical Co., 148 State St.

Mo., St. Louis

Mallinckrodt Chemical Works

N. Y., New York City

Suzuki & Co., S., 13 Park Row (Plant: Tokyo, Japan)

Sodium Methylarsenate*N. Y., New York City*

*Fougera & Co., E., 90-92 Beekman St.

Sodium Naphthaline Beta Sulphonate*N. Y., New York City*

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Sodium Naphthionate*Ill., Quincy*

Monroe Color & Chemical Co.

N. J., Perth Amboy

General Supply Co., Market St. and Bertrand Ave

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Sodium Nitrate*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ga., Savannah

Alexander & Co., Inc., G. S.

Ill., Chicago

Armour Fertilizer Works, Union Stock Yards

*Daigger & Co., A., 54 W. Kinzie St.

La., New Orleans

New Orleans Acid & Fertilizer Co., Gretna Lane

Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.

Md., Baltimore

*Walter Co., Edw. J., 803 American Bldg.

N. Y., Brooklyn

*Wiarda & Co. John C., 273 Green St.

N. Y., Buffalo

Buffalo Fertilizer Works, Marine National Bank Bldg.

N. Y., Kingston

Nitrated Chemicals Co.

N. Y., New York City

*Alexander & Co., Inc., C. S., 61 Broadway

*Baker & Bro., H. J., 81 Fulton St.

Balfour, Williamson Co., 43 Exchange Place

Sodium Nitrate—cont.*N. Y., New York City—cont.*

Burroughs & Co., Jas. S., 56 Pine St.
 Cooper & Co., Charles H., 194 Worth St

*Grace & Co., W. R., 1 Hanover Square
 *Hemingway, Inc., Frank, 115 Broadway

Innis, Speiden & Co., Inc., 46 Cliff St.
 *Klipstein & Co., A., 644 Greenwich St.

*Knowles-Bradley Co., 88 Wall St.
 Marden, Orth & Hastings Corp'n, 61 Broadway

Rector Chemical Co., 2 Rector St.
 Roessler & Hasslacher Chemical Co., 100 William St.

*Wessel, Duval & Co., 25 Broad St.
 *Taylor Commission Co., Geo. F., 80 Pine St.

N. Y., Chauncey, Westchester Co.
 Stauffer Chemical Co.

N. Y., Syracuse
 Semet-Solvay Co.

Ohio, Cincinnati
 *Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Ohio, Cleveland
 Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia
 Pennsylvania Salt Mfg. Co.

R. I., Providence
 Arnold, Hoffman & Co., Inc., 55 Canal St.

Va., Norfolk
 Royster Chemical Works

Va., Richmond
 Virginia-Caroline Chemical Co.

Wash., Seattle
 American Nitrogen Products Co.

Sodium Nitrate, Technical

N. Y., New York City
 Cooper & Co., Charles, 194 Worth St.

Sodium Nitrite

Del., Wilmington
 Du Pont de Nemours & Co., E. I.

Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston
 Merrimac Chemical Co., 33 Broad St.

Mo., St. Louis
 Mallinckrodt Chemical Works, 3600 N. 2d St

N. Y., New York City
 Butterworth-Judson Corp., 61 Broadway

General Chemical Co., 25 Broad St.
 Heller & Merz, 503 Hudson St.

*Herrick-Voigt Chemical Corporation,
 1 Liberty St.

Innis, Speiden & Co., Inc., 46 Cliff St.
 Kalle Color & Chemical Co., 530 Canal St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Merck & Co., 45 Park Place

*Tennant, C., Sons & Co., 100 William St.

White Tar Co., 6 Cliff St.

Ohio, Cleveland
 Harshaw, Fuller & Goodwin Co.

R. I., Providence

*Lewis, John D.

Sodium Nitroprusside

Pa., Philadelphia
 Harmer Laboratories Co., 1704 Market St.

Sodium Oxalate

Mo., St. Louis
 Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City
 Cooper, Chas., & Co., 194 Worth St.

Pa., Bradford
 American Alkali & Acid Co.

Sodium Perborate

N. Y., New York City
 Edgertyn Aniline Corp., 118 William St.

Kalle Color & Chemical Co., 530 Canal St.

Roessler & Hasslacher Chemical Co., 100 William St.

Ohio, Cleveland
 Grasselli Chemical Co.

Sodium Permanganate

Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
 Schapper Chemical Co., 192 N. Clark St.

Mo., St. Louis
 Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City
 *Chromos Chemical Co., Inc., Aeolian Hall

Cooper & Co., Charles, 194 Worth St.

*Klipstein & Co., A., 644 Greenwich St.

Sodium Peroxide

Ill., Chicago
 *Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
 Mallinckrodt Chemical Works, 3600 N. 2d St.

Sodium Peroxide—*cont.**N. Y., New York City*

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Edgertyn Aniline Corp., 118 William St.

Kalle Color & Chemical Co., 530 Canal St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

Mitsui & Co., Ltd., 65 Broadway

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Sodium Phosphate*England, Manchester*

Victors, Ltd., Victoria Bldg.

Ill., Chicago

Armour Fertilizer Works, Union Stock Yards

*Daigger & Co., A., 54 W. Kinzie St.

Md., Baltimore

Thomsen Chemical Co., Race and Winder Sts.

Mass., Boston

Avery Chemical Co., 88 Broad St.

Minn., Minneapolis

Columbia Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2nd St.

Provident Chemical Works, 8011 Idaho Ave.

N. J., Camden

Mechling Bros. Mfg. Co.

N. Y., Kingston

Nitrated Chemical Co.

N. Y., New York City

Bowker Chemical Co., 60 Trinity Place

Edgertyn Aniline Corp., 118 William St.

General Chemical Co., 25 Broadway

Kalle Color & Chemical Co., 530 Canal St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

Roessler & Hasslacher Chemical Co., 100 William St.

Warner Chemical Co., 52 Vanderbilt Ave.

*Wilkes-Martin-Wilkes Co., 135 William St.

Ohio, Cleveland

Grasselli Chemical Co.

*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Pa., Pittsburgh

*Mortlandt Chemical Co., 602 Fitzsimons Bldg.

R. I., Providence

Arnold, Hoffman & Co., Inc., 55 Canal St.

Sodium Potassium Tartrate*England, Accrington*

Phoenix Chemical Co., Ltd., Jackson St. Church

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2nd St.

N. Y., New York City

National Aniline Chemical Co., Inc., 21 Burling Slip

Southern Oil & Chemical Co., 15 Park Row

Ohio, Cleveland

Harshaw, Fuller and Goodwin Co.

Sodium Prussiate (*see also Sodium Ferri- and Ferrocyanides*)*England, Liverpool*

Haddock Parker & Co., 14 Chapel St.

England, Manchester

*Willecocks & Co., Ltd., H. S., 5 Beaver St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Marden, Orth & Hastings Corp'n, 61 Broadway

White Tar Co., 6 Cliff St.

*Wood, Inc., J. Early, 21 Platt St.

Oregon, Portland

Portland Gas & Coke Co.

Pa., Philadelphia

Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Road.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

*Lewis, John D.

Sodium Pyrophosphates*England, Manchester*

Victors, Ltd., Victoria Bldg.

N. Y., New York City

General Chemical Co., 25 Broad St.

Sodium Resinate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Sodium Salicylate*England, London*American Commerce Co., Ltd., The, 19
St. Bride St.*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Mo., St. Louis*Mallinckrodt Chemical Works, 3600 N.
2nd St.Monsanto Chemical Works, 2nd St.
and LaFayette Ave.*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

*Baker & Co., H. J., 81 Fulton St.

Barrett Co., 17 Battery Place

Edgertyn Aniline Corp., 118 William
St.Heyden Chemical Works, 135 William
St.Marden, Orth & Hastings Corp'n, 61
Broadway

Merck & Co., 45 Park Place

N. Y., Syracuse

Semet-Solvay Co.

Sodium Selenite*N. Y., New York City*American Smelting & Refining Co.,
120 BroadwayDrakenfeld & Co., Inc., 50 Murray St.
Franco-American Chemical Co., S
Gold St.U. S. Smelting, Refining & Mining Co.,
120 Broadway*Pa., Philadelphia*Foote Mineral Co., Inc., 111 N. 19th
St.**Sodium Sesquicarbonate***N. Y., Syracuse*

Solvay Process Co.

Ohio, Cleveland

Grasselli Chemical Co.

Sodium Silicate*Cal., Los Angeles**Bobrick Chemical Co., 111-117 S.
Garey St.*Ill., East St. Louis*

Illinois Mineral Mining Co.

Ill., Chicago

Central Commercial Co.

*Daigger & Co., A., 54 W. Kinzie St.
Merchants Chemical Co., 7 S. Dear-
born St.*Md., Baltimore*Thomsen Chemical Co., Race and
Winder Sts.*Mass., Boston**King & Co., Inc., E. & F., 367 Atlantic
Ave.Richards & Co., Inc., 200 Causeway St.
Mo., St. Louis

Whitelaw Bros. Chemical Co.

N. J., Camden

Mechling Bros. Mfg. Co.

N. J., Trenton

Utah Potash Co.

*N. Y., New York City*Butterworth-Judson Corp., 61 Broad-
way

Cooper & Co., Charles, 194 Worth St.

*Cooper & Cooper, 309 Broadway

Edgertyn Aniline Corp., 118 William
St.

General Chemical Co., 25 Broad St.

*Halle-Perris Trading Corporation, 24
State St.

Kalbfleisch Corp., 31 Union Square, W.

*Marrell Chemical Co., Inc., 25 Beaver
St.

Merck & Co., 45 Park Place

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Pa., Philadelphia

Philadelphia Quartz Co., 121 S. 3d St.

*R. I., Providence**Lewis, John D., 1209 Turks Head
B'dg.**Sodium Silicofluoride** (*see Sodium
Fluosilicate*)**Sodium Stannate***N. Y., New York City*Kalle Color & Chemical Co., 530 Canal
St.*Klipstein & Co., A., 644 Greenwich
St.*R. I., Providence*Arnold, Hoffman & Co., Inc., 55 Canal
St.**Sodium Succinate***N. Y., New York City**Klipstein & Co., A., 644 Greenwich
St.**Sodium Sulfonate, Orthochlor
Para Toluol***Mo., St. Louis*Monsanto Chemical Works, 2d St. and
LaFayette Ave.**Sodium Sulfonate Para Toluol***Mo., St. Louis*Monsanto Chemical Works, 2d St. and
LaFayette Ave.**Sodium Sulphanilate***N. J., Perth Amboy*General Supply Co., Market St. and
Bertrand Ave.*N. Y., New York City*Marden, Orth & Hastings Corp'n, 61
Broadway

Sodium Sulphate*Cal., San Francisco*

Stauffer Chemical Co.

Colo., Denver

Western Chemical Mfg. Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

*Ill., Chicago*Chicago Copper & Chemical Co., 111
W. Jackson Place

*Daigger & Co., A., 54 W. Kinzie St.

Ill., Springfield

National Zinc Co.

*La., New Orleans*Standard Guano & Chemical Mfg. Co.,
Whitney Central Bldg.*Md., Baltimore**Maryland Chemical Co., Columbia
Ave. and B & O R RThomsen Chemical Co., Race and
Winder Sts.*Mass., Boston*

Merrimac Chemical Co., 32 Broad St.

*Mo., St. Louis*Commercial Acid Co., Boatmen's
Bank Bldg.*Mo., Kansas City*

National Zinc Co., Packers Station

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

*N. Y., Buffalo*Contact Process Co., Abbott Road,
near Lee St.*N. Y., New York City**Beer, Sondheimer & Co., 61 Broadway
Butterworth-Judson Co., 61 Broadway

*Echavarria & Co., R., 8 Bridge St.

General Chemical Co., 25 Broad St.

*Halle-Perris Trading Corporation, 24
State St.Kalbfleisch Corp., 31 Union Square, W.
Merek & Co., 45 Park PlaceMutual Chemical Co. of America, 55
John St.Southern Cotton Oil Co., 120 Broad-
way*Ohio, Cleveland*

Grasselli Chemical Co., Arcade Bldg.

Ohio, Sandusky

Jarecki Chemical Co.

Pa., Philadelphia

Baugh & Sons Co.

Pennsylvania Salt Mfg. Co., Widener
Bldg.Powers-Weightman-Rosengarten Co.,
9th and Parrish Sts.*Scotland, Glasgow*Barr, Ltd., James C., 27. Blythwood
Square**Sodium Sulphate, Anhydrous***N. Y., New York City**Kalbfleisch Corporation, 31 W. Union
Square**Sodium Sulphide***Cal., San Francisco*

Barbour Chemical Works

*Colo., Denver*Chemical Products Co., 612 Majestic
Bldg.*Conn., Naugatuck*

Naugatuck Chemical Co.

England, London

*Dexters. Ltd., 362 City Road

*Ill., Chicago*Chicago Copper & Chemical Co., 111
W. Jackson Place

*Daigger & Co., A., 54 W. Kinzie St.

*Md., Baltimore*Thomsen Chemical Co., Race and
Winder Sts.*Mass., Boston**King & Co., Inc., E. & F., 367 Atlantic
Ave.

Merrimac Chemical Co., 32 Broad St.

Mo., St. Louis

Lambert Chemical Co.

*N. Y., Buffalo*Contact Process Co., Abbott Road,
near Lee St.*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Cooper & Co., Charles, 194 Worth St.

*Cooper & Cooper, 309 Broadway

*Echavarria & Co., R., 8 Bridge St.

Edgertyn Aniline Corp., 118 William
St.

General Chemical Co., 25 Broad St.

*Klipstein & Co., A., 644 Greenwich
St.Marden, Orth & Hastings Corp'n, 61
Broadway

Merek & Co., 45 Park Place

National Aniline & Chemical Co., Inc.,
21 Burling Slip*Ohio, Cincinnati*

Globe Chemical Co., 1135 Regent Ave.

Ohio, Cleveland

Grasselli Chemical Co.

W. Va., Charleston

Rollin Chemical Co., Inc.

Sodium Sulphite*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Mo., St. Louis*Mallinckrodt Chemical Works, 3600 N.
2d St.*N. J., Camden*

Mechling Bros. Mfg. Co.

N. Y., Albany

Albany Chemical Co.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Cooper & Co., Charles, 194 Worth St.

Sodium Sulphite—cont.*N. Y., New York City—cont.*

*Echavarria & Co., R., 8 Bridge St.

Edgertyn Aniline Corp., 118 William St.

General Chemical Co., 25 Broad St.

Katzenbach & Bullock Co., 100 William St.

Merck & Co., 45 Park Place

Williamson, D. D., Co., 86 Fulton St.

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Scotland, Glasgow

Barr, Ltd., James C., 27, Blythswood Square

Sodium Sulphocarbolate*Ill., Chicago*

Abbott Laboratories, The, 4753 Ravenswood Ave.

Sodium Tetraborate*Cal., Oakland*

Pacific Coast Borax Co.

Cal., San Francisco

National Borax Co., 681 Market St.

United States Borax Co., 681 Market St.

Colo., Denver

Denver Fire Clay Co., 1742 Champ St.

England, Liverpool

Haddock Parker & Co., 14 Chapel St.

Ill., Chicago

Barrett & Co., M. L., 233 W. Lake Ave.

Thorkildsen, Mather Co., Union Stock Yards, Harris Trust Bldg.

Md., Baltimore

*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.

Mass., Boston

*King & Co., Inc., E. & F., 367 Atlantic Ave.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Archibald & Lewis Co., 124 Front St.

*Baker & Bro., H. J., 100 William St.

Cooper & Co., Charles, 194 Worth St.

*Doggett, Stanley, John and Cliff Sts.

Edgertyn Aniline Corp., 118 William St.

*Innis, Speiden & Co., Inc., 46 Cliff St.

*Klipstein & Co., A., 644 Greenwich St.

*Lathrop & Co., Inc., H. R., 200 Water St.

*McKesson & Robbins, Inc., 91 Fulton St.

Pacific Coast Borax Co., 100 William St.

Pfizer & Co., Inc., Charles, 81 Maiden Lane

White Tar Co., 6 Cliff St.

Ohio, Cleveland

*Harshaw, Fuller & Goodwin Co., 317

Electric Bldg.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

R. I., Providence

Arnold, Hoffman & Co., 55 Canal St.

Sodium Thiosulphate*Conn., Naugatuck*

Naugatuck Chemical Co.

England, London

American Commerce Co., Ltd., The, 19 St., Bride St.

Mass., Boston

*King & Co., Inc., E. & F., 367 Atlantic Ave.

Merrimac Chemical Co., 32 Broad St.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2nd St.

N. J., Camden

Mechling Bros. Mfg. Co.

N. Y., Buffalo

Contact Process Co., Abbott Road, near Lee

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

General Chemical Co., 25 Broad St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Philadelphia

Lennig & Co., Inc., Charles

Sodium Tungstate*N. Y., New York City*

*Weymouth, Ralph W., 111 Broadway

Pa., Pinos

Pinos Chemical Co.

Sodium Uranate*Pa., Philadelphia*

*Foote Mineral Co., 107 N. 19th St.

Soduxite*Ohio, Cincinnati*

American Chemical Co., 642 Carr St.

Softeners, Liquid*N. Y., New York City*

National Aniline & Chemical Co., Inc., 244 Madison Ave.

Softeners, Textile

- Mich., Kalamazoo*
Western Paper Maker's Chemical Co.
N. Y., Harrison
National Oil Products Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday
Sts.
Sizings Specialties Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Kalle Color & Chemical Co., 530 Canal
St.
*Klipstein & Co., A., 644 Greenwich
St.
National Aniline & Chemical Co., Inc.,
21 Burling Slip
National Gum & Mica Co., 59th St.
and 11th Ave.
Ohio, Cincinnati
Moore Oil Co.
Pa., Philadelphia
Houghton & Co., E. F., 240 W. Somer-
set St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal
St.

Soilime

- N. Y., New York City*
American Cyanamid Co., 511 Fifth
Ave.

Soluol

- N. Y., Syracuse*
Semet-Solvay Co.
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
United Gas Improvement Co., 1514 S.
Broad St.

Solutions, Battery

- Del., Wilmington*
Du Pont de Nemours & Co., E. I.

Solutions, Nitrocellulose

- Ohio, Cincinnati*
*Fries & Fries, 1501-13 W. 6th St.

Solutions

**Amidonaphthalene, Bened-
dict Alkaline, Benedict Quan-
titative, Dimethylamidoazo-
benzene, Doremus Hypobro-
mite, Esbach, Fehling Quali-
tative, Fehling Quantitative,
Gram Iodine, Haines, Hayem,
Iodine (Sat. Alcoholic), Ja-
velle Water, Litmus Indi-**

**cator, Lugol, Nessler Reagent,
Nylander, Obermayer, Orsat
Pot. Hydrate, Orsat Ammo-
nium Cuprous Chloride,
Orsat Alkaline Pyrogallate,
Ortho Tolidine, Ozonized
Turpentine, Sulphanilic Acid,
Tincture Guaicum, Topfer
Reagent, Toisson, Turpen-
tine, Ozonized, Uffelman Re-
agent**

- Pa., Philadelphia*
Harmer Laboratories Co.

Solutions, Soluble Cotton

- Del., Wilmington*
Hercules Powder Co., 10th and Market
Sts.

Solutions, Test

- N. Y., New York City*
Squibb & Sons, E. R., 78-80 Beekman
St.

Solutions, Volumetric

- N. Y., New York City*
Squibb & Sons, E. R., 78-80 Beekman
St.

Solvents

- Del., Wilmington*
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market
Sts.

- Ind., Indianapolis*
Citizens Gas Co.

- N. Y., Brooklyn*
*Miner-Edgar Co., 52 Warren St.

- N. Y., New York City*
U. S. Industrial Chemical Co., 27 Wil-
liam St.

- N. Y., Syracuse*
Semet-Solvay Co.

- Ohio, Cleveland*
Northern Chemical Co., W. 70th near
Detroit Ave., N. W.

- Pa., Warren*
Warren Chemical Products Co.

Solvents, Cellulose Acetate

- Ohio, Cincinnati*
Fries & Fries, 1501-13 W. 6th St.

Solvents, Nitrocellulose

- Ohio, Cincinnati*
*Fries & Fries, 1501-13 W. 6th St.

Solvents, Pyroxlin

- Del., Wilmington*
Du Pont de Nemours & Co., E. I.

Solvents, Special*Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

Solvent Thinners*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

*Ill., Chicago*Van Schaack Bros. Chemical Works,
3358 Avondale Ave.*Ohio, Cincinnati*

Fries & Fries, 1501-13 W. 6th St.

Solveol*N. Y., New York City*Heyden Chemical Works, 135 William
St.**Spelter***Cal., San Francisco*

Selby Smelting & Lead Co.

*Colo., Denver*Western Chemical Mfg. Co., S. Osage
and W. Bayaud Sts.*Mass., Boston*

Richards & Co., Inc., 200 Causeway St.

Ill., Danville

Hegeler Zinc Co.

Ill., La Salle

Matthiessen & Hegeler Zinc Co.

Ill., Peru

Illinois Zinc Co

Ill., St. Louis

American Zinc Co. of Illinois

Mo., Joplin

Eagle-Picher Lead Co.

N. J., Trenton

Engle, Robert H.

*N. Y., New York City*American Metal Co., Ltd., 61 Broad-
wayAmerican Smelting & Refining Co., 120
Broadway

Electrolytic Zinc Co., 3 S. William St.

New Jersey Zinc Co., 160 Front St.

United Zinc Smelting Corporation, 99
John St.U. S. Smelting, Refining & Mining Co.,
120 Broadway**Spirit Nigrosine** (*see Nigrosine,
Spirit*)**Stain, Pink***N. Y., Brooklyn*

*Wiarda & Co., John C., 273 Green St.

Stain, Romanowsky*Pa., Philadelphia*

Harmer Laboratories Co.

Stains (*see also Dyestuffs*)*N. Y., New York City*Scientific Utilities Co., Inc., 84 E.
10th St.**Stains: Ehrlich Tri-acid, Gab-
bet, Giesma, Niesser, Neusser,
Tiedeman, Zirhl Nerlsen***Pa., Philadelphia*

Harmer Laboratories Co

Stains, Wood*N. Y., New York City**Bachmeier & Co., Inc., 438 W. 37th
St.**Stannic Chloride***N. J., Secaren*

Vulcan Detinning Co.

N. Y., New York City

General Chemical Co., 25 Broad St.

*Independent Chemical Co., 122 West
StMetal & Thermit Corporation., 120
Broadway*Ohio, Cleveland*

Grasselli Chemical Co., Arcade Bldg.

*Pa., Philadelphia*Bower Chemical Mfg. Co., Henry, 29th
and Grays Ferry Rd.*Pa., Pittsburgh*

Republic Chemical Co., P. O. Box 946

Stannic Oxide*Ill., Chicago*Loraine Smelting & Refining Co., 25 N.
Dearborn Ave*Mich., Charlotte*

*Charlotte Drug Co.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*Edgertyn Aniline Corp., 118 William
St.*Independent Chemical Co., 122 West
St

Innis, Speiden & Co., Inc., 46 Cliff St.

Merck & Co., 45 Park Place

Roessler & Hasslacher Chemical Co.,
100 William St*N. J., Maurer*

American Smelting & Refining Co.

*Ohio, Cleveland*Harshaw, Fuller & Goodwin Co., 317
Electric Bldg.*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

Stannous Chloride*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Avery Chemical Co., 88 Broad St.

Merrimac Chemical Co., 32 Broad St.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

General Chemical Co., 25 Broad St.

*Independent Chemical Co., 122 West St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

Metal & Thermit Corporation, 60 Wall St.

Ohio, Cleveland

Grasselli Chemical Co.

Harshaw, Fuller & Goodwin Co.

Pa., Pittsburgh

Republic Chemical Co., P. O. Box 946

R. I., Providence

Arnold, Hoffman & Co., Inc., 55 Canal St.

Starch, Soluble*Iowa, Cedar Rapids*

Douglas Co.

N. J., Jersey City

Seydel Mfg. Co.

N. Y., New York City

Arabol Mfg. Co., 100 William St.

Corn Products Refining Co., 17 Battery Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

National Gum & Mica Co., 59th and 11th Ave.

Starches, Mill*Md., Baltimore*

Bloede, Victor G. Co., Caton St.

Stearine*Ill., Chicago*

Cudahy Packing Co., 111 Monroe St.

Morris & Co., Union Stock Yards

Swift & Co.

Wilson & Co.

Ky., Louisville

Kentucky Refining Co.

Mass., Boston

New England Rendering Co., Abattoir Grounds Br.

*N. Y., New York City*American Cotton Oil Co., 65 Broadway
Edgertyn Aniline Corp., 118 William St.

*Swan & Co., Alden S., 133 Front St.

*Welch, Holme & Clark Co., 381 West St.

Ohio, Cincinnati

American Cotton Oil Co. of Ohio, 443 E. 6th St.

Cincinnati Abattoir Co., 3241 Spring Grove Ave.

Emery Candle Co., 414 Walnut St.

Ohio, St. Barnard

Werk Co., The M., Murray Ave.

Texas, Dallas

Trinity Cotton Oil Co.

Steel Wool*Ill., Chicago*

Rhodes & Co., James H., 157 Austin Ave.

Stone, Rotten*Ill., Chicago*

Rhodes & Co., James H., 157 W. Austin Ave.

N. Y., Brooklyn

*Wiarda & Co., John C., 273 Green St.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

Cooper & Co., Chas., 194 Worth St.

Stone, Rubbing*Ill., Chicago*

*Rhodes, James H., & Co., 157 W. Austin Ave.

Strontium Bromide*Mich., Midland*

Dow Chemical Co.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Heyden Chemical Works, 135 William St.

Quimme and Chemical Works, Inc., 100 William St.

Strontium Carbonate*Cal., Long Beach*

Western Chemical Mfg. Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

*Chemical Importing & Mfg. Co., 90 West St.

Cooper & Co., Charles, 194 Worth St.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Strontium Hydroxide*N. Y., New York City*

*Chemical Importing & Mfg. Co., 90 West St.

Strontium Nitrate*Cal., Long Beach*

Southern Reduction Co.

Western Chemical Mfg. Co.

Cal., Vernon

Mortimer Co., F. G.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

N. Y., New York City

*Chemical Importing & Mfg. Co., 90 West St.

Edgertyn Aniline Corp., 118 William St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

Roessler & Hasslacher Chemical Co., 100 William St.

Strontium Ore*Pa., Philadelphia*

Foote Mineral Co., 120 N. 9th St.

Strontium Salicylate*N. Y., New York City*

Heyden Chemical Works, 135 William St.

Strontium Sulphate,*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Strophanthin*Ill., Chicago*

Abbott Laboratories, The, 4753 Ravenswood Ave.

Strychnine*Ill., Chicago*

Abbott Laboratories, Ravenswood

Mo., St. Louis

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Hoffman-LaRoche Chemical Works

Pfizer & Co., Inc., Chas., 81 Maiden Lane

Sugars (*Arabinose, Pure; Dextrose, Pure, Lactose, Pure; Inulin, Pure*)*Pa., Philadelphia*

H. K. Mulford Co.

Sugar, Beet Residue*Ohio, Cincinnati*

*Winkler & Bros. Co., 804 First National Bank Bldg.

Sugar of Lead (*see Lead Acetate*)**Sugar of Milk***Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., Hobart

Sheffield By-Products Co.

N. Y., New York City

*Innis, Speiden & Co., Inc., 46 Cliff St.

Hoffman-La Roche Chemical Works

N. Y., Bainbridge

National Milk Sugar Co.

Sulphate of Iron (*see Ferrous Sulphate*)**Sulphenethylmethane***N. Y., New York City*

National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur*Cal., San Francisco*

Great Western Electro Chemical Co.

Stauffer Chemical Co.

Conn. Stamford

Stamford Rubber Supply Co.

England, London

*Dexters, Ltd., 362 City Road

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

La., Lake Charles

American Sulphur Co.

Md., Baltimore

Thomsen Chemical Co., Race and Winder Sts.

Mo., St. Louis

Commercial Acid Co., Boatmen's Bank Bldg.

Neb., Omaha

Standard Chemical Mfg. Co.

N. Y., New York City

Cooper & Co., Charles, 194 Worth St.

*Cooper & Cooper, 309 Broadway

Edgertyn Aniline Corp., 118 William St.

Freeport Sulphur Co., 61 Broadway

General Chemical Co., 25 Broad St.

National Sulphur Co., 80 Maiden Lane

Southern Oil & Chemical Co., 15 Park Row

Texas Gulf Sulphur Co., 50 E. 42d St.

Union Sulphur Co., 17 Battery Place

Warner Chemical Co., 52 Vanderbilt Ave.

Ohio, Cincinnati

*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Ohio, Cleveland

Grasselli Chemical Co.

*Harshaw, Fuller & Goodwin Co., Electric Bldg.

Tenn., Ducktown

Ducktown Sulphur, Copper & Iron Co.

Texas, Freeport

Freeport Sulphur Co.

Va., Richmond

Sulphur Mining & Railroad Co.

Sulphur Black*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

*Dunker & Perkins Co., 287 Atlantic Ave.

Mass., Boston

Atlantic Dyestuff Co., 88 Ames' Bldg.

Levinstein & Co., 1, 74 India St.

*Standard Color Co., 104 Broad St.

N. J., Passaic

Wolff & Co., Jacques, 342 Lexington Ave.

N. Y., Brooklyn

Hoffman & Kropff Co., Meekin St. and Porter Ave.

N. Y., New York City

American Aniline Products, Inc., 80 Fifth Ave.

Aniline Dyes & Chemicals, Inc., Cedar and Washington St.

*Dicks, David Co., Inc., 302 Broadway

Edgertyn Aniline Corporation, 118

William St.

*Fuller & Co., Ralph L., 81 Fulton St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

Read Holliday & Sons, Ltd

Ohio, Cleveland

Grasselli Chemical Co.

Pa., Lockhaven

Stanley Aniline Chemical Works

Tenn., Kingsport

Union Dye & Chemical Corporation

Sulphur Blue*Mass., Boston*

*Dunker & Perkins Co., 287 Atlantic Ave.

N. Y., New York City

American Aniline Products, Inc., 80 Fifth Ave.

*Fullerton, Ralph L., 81 Fulton St.

National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

Read Holliday & Sons, Ltd

Ohio, Cleveland

Grasselli Chemical Co.

Tenn., Kingsport

Union Dye & Chemical Corporation

Wis., Milwaukee

Newport Chemical Works, Inc.

Sulphur Brown*Mass., Boston*

*U. S. Color & Chemical Co., Inc., 93-95 Broad St.

N. Y., Brooklyn

Williamsburg Chemical Co., Inc., 230 Morgan Ave.

N. Y., New York City

*Dicks, David Co., Inc., 302 Broadway

*Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

Wis., Milwaukee

Newport Chemical Works, Inc.

Sulphur Chloride*Cal., San Francisco*

Great Western Electro Chemical Co. Stauffer Chemical Co.

Del., Wilmington

Hercules Powder Co., 10th and Market Sts.

Ill., Chicago

*Daigger & Co., A., 54 W Kinzie St.

Mich., Midland

Dow Chemical Co.

N. H., Berlin

Brown Co.

N. Y., Brooklyn

*Highfield, John W., 248 N. 10th St.

N. Y., New York City

*Cooper, Chas., & Co., 194 Worth St.

Hooker Electrochemical Co., 40 Wall St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Warner Chemical Co., 52 Vanderbilt Ave.

Sulphur Dioxide*England, Darlington*

Parkin, Ness & Co., Quebec St.

N. Y., New York City

American Smelting & Refining Co., 120 Broadway

Independent Chemical Co., 72 Front St.

*Schwenker, Inc., W. M., 340-343 E. 92d St.

Sulphur Dioxide, Anhydrous*N. J., Bound Brook*

King Chemical Co.

N. Y., New York City

*Independent Chemical Co., 122 West St.

Sulphur Dioxide, Liquid*Va., West Norfolk*

Virginia Smelting Co.

Wis., Marinette

Ausul Chemical Co.

Sulphur Flowers*England, London*

Dexters, Ltd, 362 City Road

Mo., St. Louis

Commercial Acid Co., 1906 Boatmen's Bank Bldg.

Lambert Chemical Co., Railway Exchange Bldg.

N. Y., New York City

General Chemical Co.

Sulphur, Golden Yellow*N. Y., Cook's Falls*

Beaverskill Color & Chemical Co., The

Sulphur Green*Del., Wilmington*

Du Pont de Nemours & Co, E. I.

N. Y., Brooklyn

Williamsburg Chemical Co., Inc, 230 Morgan Ave.

N. Y., New York City

American Aniline Products, Inc., 80 Fifth Ave

National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co, 59th St. and 11th Ave.

Sulphur Khaki*Del., Wilmington*

Du Pont de Nemours & Co, E. I.

Mass., Boston

Essex Aniline Works, 39 Oliver St. Levinstein & Co., 1, 74 India St.

N. Y., Brooklyn

Williamsburg Chemical Co., Inc, 230 Morgan Ave.

N. Y., New York City

American Aniline Products, Inc., 80 Fifth Ave.

*Dicks, David Co, Inc, 302 Broadway National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur Olive*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Mass., Boston

Essex Aniline Works, 39 Oliver St. Levinstein & Co, 1, 74 India St.

N. Y., Brooklyn

Williamsburg Chemical Co., Inc., 230 Morgan Ave.

N. Y., New York City

American Aniline Products, Inc., 80 Fifth Ave.

*Dicks, David Co., Inc., 302 Broadway National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur, Orange Brown*N. Y., Cook's Falls*

Beaverskill Color & Chemical Co., The

Sulphur, Pink*N. Y., Cook's Falls*

Beaverskill Color & Chemical Co., The

Sulphur, Rubbermakers*Ill., Chicago**Daigger & Co., A., 51 W. Kinzie St. *Mo., St. Louis*

Commercial Acid Co., 1906 Boatman's Bank Bldg.

Lambert Chemical Co., Railway Exchange Bldg.

Sulphur Yellow*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Mass., Boston

Essex Aniline Works, 39 Oliver St. Levinstein & Co, 1, 74 India St.

N. Y., Brooklyn

Williamsburg Chemical Co, Inc., 230 Morgan Ave

N. Y., New York City

American Aniline Products, Inc., 80 Fifth Ave

*Dicks, David Co., Inc, 302 Broadway National Aniline & Chemical Co., 21 Burling Slip

National Gum & Mica Co, 59th St. and 11th Ave.

Talc*Cal., Tropico*

Pacific Tile & Terra Cotta Co.

Canada, Ontario, Modoc

Gillespie Co., George H.

Ill., Chicago

*Clark, Frank C., 316 W Kinzie St.

*Daigger & Co., A., 54 W. Kinzie St.

N. C., Asheville

Georgia Talc. Co.

N. J., Lincoln

Atlas Mineral Products Co., The

N. Y., Brooklyn

*Miner-Edgar Co, 52 Warren St.

N. Y., New York City

Baker & Bro., H. J., 100 William St.

*Binney & Smith Co., 81 Fulton St.

*Chrystal, Charles B., 11 Cliff St.

*Dunn & Kruse, 53 Park Row

Innis, Speiden & Co., Inc., 46 Cliff St.

Merck & Co., 45 Park Place

Robbins Mining Co., A. A., 99 John St.

*Salomon & Bro., L. A., 216 Pearl St.

Talc Products Co., 11 Pine St.

*Whittaker Co., W. H., 250 Front St.

Union Talc Co., 132 Nassau St.

U. S. Talc Co., 41 Park Row

N. C., Asheville

Georgia Talc Co

Tallow, Mineralized

Pa., Philadelphia
Houghton & Co., E. F., 240 Somerset St.

Tank Linings, Acid Proof

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Tantalite

Pa., Philadelphia
Foote Mineral Co., Inc., 107 N. 19th St.

Tantalum

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Tar, Coal

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.

Tennessee Coal, Iron & R. R. Co.

Ala., Woodward
Woodward Iron Co.

Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.

Conn., Derby
Derby Gas Co.

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Ill., Aurora
Coal Products Mfg. Co.

Ill., Chicago
American Tar Products Co., 208 S. LaSalle St.

By-Products Coke Corp.
Illinois Steel Co., 208 S. La Salle St.
Inland Steel Co.

Ill., Waukegan
North Shore Gas Co.

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.

Ind., Linton
Linton Gas Co.

Ind., Muncie
Central Indiana Gas Co.

Ind., Terre Haute
Indiana Coke & Gas Co.

Iowa, Des Moines
Des Moines Gas Co.

Mass., Boston
New England Fuel & Trans. Co., 111 Devonshire St.

Mass., Fall River
Fall River Gas Works Co.

Mass., Lowell
Lowell Gas Light Co.

Mass., New Bedford
New Bedford Gas & Edison Light Co.

Mich., Detroit
Detroit City Gas Co.

Mich., Wyandotte
Michigan Alkali Co.

Minn., Duluth
Minnesota Steel Co., Morgan Park Station

Minn., St. Paul
Minnesota By-Product Coke Co.

Minn., West Duluth
Zenith Furnace Co.

Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.

N. J., Elizabeth
Bayway Chemical Co.

N. J., Jersey City
Seaboard By-Product Coke Co.

N. J., Newark
Camden Coke Co., Broad and Bank Sts.

N. Y., Buffalo
Buffalo Gas Co.
Buffalo Union Furnace Co.

N. Y., Geneva
Empire Coke Co.

N. Y., Lackawanna
Lackawanna Steel Co.

N. Y., New York City
Barrett Co., 17 Battery Place
Niagara Coke Corp., 6 Church St.
Consolidated Gas Co. of New York

N. Y., Schenectady
Mohawk Gas Co.

N. Y., Syracuse
Semet-Solvay Co.

Ohio, Canton
United Furnace Co.

Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.

Dover By-Product Coke Co., Leader-News Bldg.

River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.

United Furnace Co., Western Reserve Bldg.

Ohio, Hamilton
Hamilton-Otto Coke Co.

Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.

Youngstown Sheet & Tube Co.

Ohio, Steubenville
La Belle Iron Works

Pa., Chester
Philadelphia Suburban Gas & Electric Co.

Pa., McKeesport
Allegheny By-Product Coke Co.

Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Northern Liberties Gas Co.
United Gas Improvement Co.

Tar, Coal—*cont.*

- Pa.*, *Pittsburgh*
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., *South Bethlehem*
Bethlehem Steel Co.
Tenn., *Chattanooga*
Chattanooga Gas & Coal Products Co., James Bldg.
Va., *Norfolk*
City Gas Co.
Wash., *Seattle*
Seattle Lighting Co., 360 Stuart Bldg.
Wash., *Spokane*
Spokane Falls Gas Light Co.
Wis., *Milwaukee*
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.

Tar, Dehydrated

- Del.*, *Wilmington*
Du Pont de Nemours & Co., E. I.

Tar, Pine

- Ala.*, *Crichton*
Crichton Wood Products Co.
Fla., *Gulf Point*
Pensacola Tar & Turpentine Co.
Fla., *Jacksonville*
Florida Wood Products Co.
Ga., *Brunswick*
Yaryan Rosin & Turpentine Co.
Ga., *Savannah*
Antwerp Naval Stores Co.
Atlantic Turpentine Co.
National Rosin Oil & Size Co.
La., *New Orleans*
American Turpentine & Tar Co.
Gulf Naval Stores Supply Co.
N. Y., *New York City*
General Naval Stores Co., 90 West St.
Georgia Pine Turpentine Co. of New York, 160 Perry St.
Ohio, *Cincinnati*
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Tar Remover

- Del.*, *Wilmington*
Du Pont de Nemours & Co., E. I.

Tarola

- N. Y.*, *New York City*
Barrett Co., 17 Battery Place
(*trade*)

Tartar Emetic (*see Potassium Antimonyl Tartrate*)**Tartar, Cream of** (*see Potassium Acid Tartrate*)**Tellurium**

- N. J.*, *Perth Amboy*
Raritan Copper Works
N. Y., *New York City*
American Smelting & Refining Co., 120 Broadway
Pa., *Philadelphia*
Foote Mineral Co., 120 N. 19th St.

Terebene

- N. Y.*, *New York City*
McKesson & Robbins, Inc., 91 Fulton St.
Pa., *Philadelphia*
Powers-Weightman-Rosengarten Co.

Terne Plate

- Ill.*, *Chicago*
Great Western Smelting & Refining Co.
Mass., *Boston*
Richards & Co., Inc.
Mich., *Detroit*
Michigan Smelting & Refining Co.
N. Y., *New York City*
Nassau Smelting & Refining Works
Pa., *McKeesport*
McKeesport Tin Plate Co.
Pa., *Pittsburgh*
American Sheet & Tin Plate Co.
Pa., *Bethlehem*
Bethlehem Steel Co.

Terpineol

- N. J.*, *Bayonne*
Standard Chemical Co., W. 5th St.
N. Y., *New York City*
Chemical Co. of America, 23 Platt St.
Florasynth Laboratories, Inc., 15 Beekman St.
Pa., *Grassland*
Essential Oil Specialties Co.

Terpinolene

- N. J.*, *Bayonne*
Standard Chemical Co., W. 5th St.
N. Y., *New York City*
*Baker & Bro., H. J., 81 Fulton St.
Florasynth Laboratories, Inc., 15 Beekman St.

Terpinhydrate

- N. Y.*, *New York City*
Chemical Co. of America, 28 Platt St.
Merck & Co., 45 Park Place
Pa., *Grassland*
Essential Oil Specialties Co., Inc.
Pa., *Philadelphia*
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Terra Alba (*see Whiting*)

Terra Cotta F*N. Y., Cook's Falls*

Beaverskill Color & Chemical Co., The

Tetrachloride, Acetylene*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Tetralene*N. Y., New York City*

*Richmond Products Co., 32 Broadway

Tetramethyldiaminophenylketone*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Tetramethyldiaminodiphenylmethane*N. Y., New York City*

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Tetramethyldiphenylmethane*N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Tetranitromethylaniline*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Tetrol*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Textase*N. Y., New York City*

Malt-Diastase Co., 79 Wall St.

Thallium*N. Y., New York City*

American Smelting & Refining Co., 120 Broadway

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Thallium Chloride*Pa., Philadelphia*

Foote Mineral Co., Inc., 107 N. 19th St.

Thallium Nitrate*Pa., Philadelphia*

Foote Mineral Co., Inc., 107 N. 19th St.

Thermit*N. Y., New York City*

Metal & Thermit Corporation, 120 Broadway

Ohio, Marietta

Northwestern Chemical Co., The

"The Neo Earth"** (*see Earth, The Neo*)**Thimners, GumDel., Wilmington*Du Pont de Nemours & Co., E. I.
Hercules Powder Co.**Thiocarbanilid***Conn., Naugatuck*

Naugatuck Chemical Co.

N. J., Belleville

Rare Metal Products Co., Cortland St.

Thiocarbaniline*N. Y., New York City*National Aniline & Chemical Co., Inc.,
21 Burling Slip*N. Y., Syracuse*

Semet-Solvay Co.

Thiocarbtoluide*N. Y., New York City*National Aniline & Chemical Co., Inc.,
21 Burling Slip**Thiocarbxyliide***N. Y., New York City*National Aniline & Chemical Co., Inc.,
21 Burling Slip**Thionine***Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Thorium*Ill., Chicago*

Lindsay Light Co.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Thorium Nitrate*Ill., Chicago*

Lindsay Light Co., 161 E. Grand Ave.

Ill., North Chicago

Pfansteihl Co., Inc.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

N. Y., New York City

*Klipstein & Co., A., 644 Greenwich St.

Ohio, Youngstown

Block Gas Mantle Co.

Thorium Ore (*see Monazite Ore*)*N. Y., New York City*

*Klipstein & Co., A., 641 Greenwich St.

Thorium Oxide*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Thymol Crystals*Mo., St. Louis*

Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City

Lehn & Fink., Inc., 120 William St.

National Aniline & Chemical Co., Inc., 21 Burling Slip

Thymolphthalein*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Tin*Cal., San Francisco*

Selby Smelting & Lead Co., Merchant Exchange Bldg.

Ill., Chicago

Great Western Smelting & Refining Co., 41st and Wallace Aves.

Ind., East Chicago

Raymond Lead Co., 940 W. Huron St.

Mass., Boston

Richards & Co., Inc., 200 Causeway St.

N. J., Sewaren

Vulcan Detinning Co.

N. Y., Brooklyn

Atlantic Smelting & Refining Co., 36-42 Delevan St.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

American Smelting & Refining Co., 120 Broadway

Metal & Thermit Corporation

Mitsui & Co., Ltd., 65 Broadway

Nassau Smelting & Refining Co., 607 W. 29th St.

National Lead Co., 111 Broadway

U. S. Smelting, Refining & Mining Co., 120 Broadway

Wah-Chung Mining & Smelting Co., Woolworth Bldg.

Pa., Philadelphia

Ajax Metal Co., 48 Richmond St.

Lewis & Bros. Co., John T., 705 Lafayette Bldg.

Taylor Co., N. & G., 409 Mariner & Merchants Bldg.

Tin Acetate*England, Manchester*

Robinson & Co., H. F., Newton Heath

Tin Chloride*N. Y., New York City*

General Chemical Co., 25 Broad St.

Tin, Crystal (*see Stannous Chloride*)**Tin Lactate***N. Y., New York City*

Apex Chemical Works, 63 Park Row

Tin Oxide (*see Stannic Oxide*)**Titanellow***Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Titanium*D. C., Washington*

American Rutile Co., 622 F St., N. W.

England, Manchester

Spence & Sons, Ltd., Peter

N. Y., New York City

*Dorl, F. & Co., Park Row Bldg.

Metal & Thermit Corporation, 120 Broadway

N. Y., Schenectady

Organic Products Corporation

Pa., Philadelphia

Foote Mineral Co., 107 N. 19th St.

Pa., Pittsburgh

Carnegie Steel Co.

Titanium Dioxide*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Titanium Ores*D. C., Washington*

American Rutile Co., 622 F St., N. W.

Titanium Oxalate*Pa., Philadelphia*

*Foote Mineral Co., 107 N. 19th St.

Titanium, Oxide*D. C., Washington*

American Rutile Co., 622 F. St. N.W.

Pa., Philadelphia

Foote Mineral Co., 107 N. 19th St.

Va., Roseland

American Rutile Co.

Titanium Potassium Oxalate*Ill., Chicago*

Lindsay Light Co., 161 E. Grand Ave.

Tolidin*Del., Wilmington*

Du Pont Chemical Co.

*N. Y., New York City*Aniline Dyes & Chemicals, Inc., Cedar
and Washington Sts.

Chemical Co. of America, 28 Platt St.

Newport Chemical Works, 120 Broad-
wayTransatlantic Chemical Corporation,
192 Broadway*Ohio, Cleveland*

Sherwin-Williams Co.

*R. I., Providence*Agawam Chemical Works, 10 Weybos-
set St.**Tolidine Ortho***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Tolidin Sulphate***N. Y., New York City*

Chemical Co. of America, 28 Platt St.

Toluene*Ala., Birmingham*Gulf States Steel Co., Brown-Marx
Bldg.

Tennessee Coal, Iron & R. R. Co.

Ala., Woodward

Woodward Iron Co.

Colo., Denver

Colorado Fuel & Iron Co., Boston Bldg.

*Conn., New Haven*New Haven Gas Light Co., 80 Crown
St.*Conn., New Haven*

New Haven Gas Light Co.

Del., Wilmington

Dupont de Nemours & Co., E. I.

Ill., Aurora

Coal Products Mfg. Co.

Ill., Chicago

By-Products Coke Corp.

*Daigger & Co., A., 54 W. Kinzie St.

Gas Co. of Indiana, Peoples Gas Bldg.

Illinois Steel Co., 208 S. La Salle St.

Inland Steel Co.

Western Aniline Products Co., 36 S.
State St.*Ill., Waukegan*

North Shore Gas Co.

Ind., Indianapolis

Citizens Gas Co., Majestic Bldg.

Ind., Linton

Linton Gas Co.

Ind., Muncie

Central Indiana Gas Co.

Ind., Terre Haute

Indiana Coke & Gas Co.

Mass., Boston

New England Fuel & Trans. Co., 111

Devonshire St.

Mich., Wyandotte

Michigan Alkali Co.

*Minn., Duluth*Minnesota Steel Co., Morgan Park
Station*Minn., St. Paul*

Minnesota By-Product Coke Co.

Minn., West Duluth

Zenith Furnace Co.

Mo., St. Louis

Laclede Gas Light Co., 1017 Olive St.

N. J., Elizabeth

Bayway Chemical Co.

N. J., Jersey City

Seaford By-Product Coke Co.

*N. J., Newark*Camden Coke Co., Broad and Bank
Sts.*N. Y., Buffalo*

Buffalo Union Furnace Co.

N. Y., Lackawanna

Lackawanna Steel Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Edgertyn Aniline Corp., 118 William
St.Edison International Corporation, 165
Broadway*Klipstein & Co., A., 641 Greenwich
St.

*Lathrop & Co., H. R., 194 Water St.

Marden, Orth & Hastings Corp'n, 61
Broadway

Niagara Coke Corp., 6 Church St.

*Williamson & Co., 120 Broadway

*Zobel Co., Inc., 38 Water St.

N. Y., Syracuse

Semet-Solvay Co.

*Ohio, Cleveland*American Steel & Wire Co., Western
Reserve Bldg.Dover By-Product Coke Co., Leader-
News Bldg.

River Furnace Co.

Sherwin-Williams Co.

Toledo Furnace Co., Western Reserve
Bldg.United Furnace Co., Western Reserve
Bldg.*Ohio, Hamilton*

Hamilton-Otto Coke Co.

Ohio, Youngstown

Brier Hill Steel Co.

Republic Iron & Steel Co., Republic
Bldg.

Youngstown Sheet & Tube Co.

Ohio, Steubenville

La Belle Iron Works

Pa., Carnegie

Aetna Chemical Co.

Toluene—cont.*Pa., Chester*

Philadelphia Suburban Gas & Electric Co.

Pa., McKeesport

Alleghany By-Product Coke Co.

Pa., Philadelphia

United Gas Improvement Co., Broad and Arch Sts.

Pa., Pittsburgh

Carnegie Steel Co.

National Tube Co., Frick Bldg.

Pa., South Bethlehem

Bethlehem Steel Co.

R. I., Providence

Providence Gas Co.

Wash., Seattle

Seattle Lighting Co., 360 Stuart Bldg.

Wis., Milwaukee

Milwaukee Coke & Gas Co.

Newport Chemical Works, Inc.

Northwestern Iron Co., First National Bank Bldg.

Tolueneamidoazohydrochloride*N. Y., New York City*

Aniline Dyes & Chemicals, Inc., 21 Burling Slip

Toluene, C. P.*Pa., Philadelphia*

Cambria Steel Co., Widener Bldg.

Midvale Steel & Ordnance Co., Widener Bldg

Toluene, Nitro*N. Y., New York City*

*Klipstein & Co., A., 644 Greenwich St.

Toluene Sodium Sulphonate, Para*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Toluenesulfamide, Para*Mo., St. Louis*

Monsanto Chemical Works, 2d St. and LaFayette Ave.

Toluenesulfochloride, Para*Mo., St. Louis*

Monsanto Chemical Works, 2d St. and LaFayette Ave.

Toluidine*Cal., San Francisco*

California Aniline & Chemical Co., 33 Clementina St.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Western Aniline Products Co., 36 S. State St.*Ill., Quincy*

McNroe Color & Chemical Co.

*N. Y., New York City*Chemical Co. of America, 176 Front St.
Edgertyn Aniline Corp., 118 William St.

Independent Chemical Co., 72 Front St.

*Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

Middlesex Aniline Co., Inc., 149 Broadway

Merck & Co., 45 Park Place

National Aniline & Chemical Co., Inc., 21 Burling Slip

Transatlantic Chemical Corporation, 192 Broadway

Ohio, Cleveland

Sherwin-Williams Co.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Wis., Milwaukee

Newport Chemical Works Inc., 1112 First National Bank Bldg.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Toluidine Hydrate, Para*N. Y., Kingston*

Nitrated Chemicals Co.

Toluidine, Mixed*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., New York City

Transatlantic Chemical Corporation, 192 Broadway

Toluidine, Ortho*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

Ind., Hammond

Western Aniline Products Co., Morton Court

N. Y., Kingston

Nitrated Chemicals Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Chemical Co. of America, 176 Front St.

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

Transatlantic Chemical Corporation, 192 Broadway

Ohio, Cleveland

Sherwin-Williams Co.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Wis., Milwaukee

Newport Chemical Works Inc., 1112 First National Bank Bldg.

Toluidine, Para*Ind., Hammond*

Western Aniline Products Co., Morton Court

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Chemical Co. of America, 176 Front St.

Merck & Co., 45 Park Place

Transatlantic Chemical Corporation, 192 Broadway

Ohio, Cleveland

Sherwin-Williams Co.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Wis., Milwaukee

Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Toluidine Reds*Cal., San Francisco*

California Aniline & Chemical Co., 33 Clementina St.

Toluol (see Toluene)**Toluylendiamine, Meta***N. Y., New York City*

Dye Products & Chemical Co., Inc., 200 Fifth Ave

*Klipstein & Co., A., 644 Greenwich

Toners, Toluidine Red*N. Y., Glen Falls*

Imperial Color Works, Inc.

Toxilineum (see Oils, Wood Preservation)**Tribromphenol***Mich., Midland*

Dow Chemical Co.

Tribromphenol Bismuth*Mich., Midland*

Dow Chemical Co.

Trinitrobenzene*N. Y., New York City*

Merck & Co., 45 Park Place.

Ohio, Dover

Dover By-Products Coke Co.

Trinitrophenol*Conn., Stamford*

American Synthetic Color Co.

Mich., Midland

Dow Chemical Co.

N. Y., New York City

Merck & Co., 45 Park Place

Trinitrotoluene*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. Y., New York City

Aetna Explosive Co., Inc., 120 Broadway

*Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

N. Y., Syracuse

Semet-Solvay Co.

Tenn., Kingsport

Federal Dyestuff & Chemical Corp.

Tripoli*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., Jas. H., 153 W. Austin Ave.

N. Y., New York City

*Chrystal, Charles B., 11 Cliff St.

*Salomon & Bro., L. A., 216 Pearl St.

Tropaeolin oo*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Tungsten (Metal)*Colo., Boulder*

Primos N. & M. Co.

Vasco Mining Co.

Colo., Denver

Intermountain Tungsten Milling Co.

Rare Metals Ore Co.

Ill., North Chicago

Pfanstiehl Co., Inc.

N. Y., New York City

*Canada Carbide Sales Co., 30 Church St.

*Fairbanks, Morse & Co., 30 Church St.

*Hardy, Charles, 50 Church St.

Metal & Thermit Corporation, 120 Broadway

*Mitsui & Co., Ltd.

Wah Chang Mining & Smelting Co., Ltd.

N. Y., Schenectady

Organic Products Corporation

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Vanadium-Alloys Steel Co.

S. Dak., Hill City

Black Hills Tungsten Mining & Milling Co.

Tungsten, (Metal Powder)*Pa., Philadelphia*

*Foote Mineral Co., 107 N. 19th St.

Tungsten, (Metal Products)*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Tungsten, (Wire)*N. Y., Port Chester*

Mallory & Co., Inc., P. R.

Tungsten Ore*N. Y., New York City*

American Metal Co., Ltd., 61 Broadway

*Hardy, Chas., Inc., 50 Church St.

*Leavitt & Co., C. W., 30 Church St.

Mitsui & Co., Ltd., 65 Broadway

*Weymouth, Ralph W., 111 Broadway

Pa., Philadelphia

Foote Mineral Co., 107 N. 19th St.

Lavino & Co., E. J., Bullitt Bldg.

Turpentine*Fla., Jacksonville*

Consolidated Land Co.

Peninsular Naval Stores Co.

Ga., Brunswick

Yaryan Rosin & Turpentine Co.

Ga., Savannah

Antwerp Naval Stores Co.

National Rosin, Oil & Size Co.

Standard Naval Stores Co.

La., New Orleans

Gulf Naval Stores Supply Co.

N. J., Bayonne

Standard Chemical Co., W. 5th St.

N. Y., New York City

*Columbia Naval Stores Co., 17 Battery Place

*General Naval Stores Co., 90 West St.

Industrial Chemical Co., 200 Fifth Ave.

*Larendon & Co., M. W., 82 Wall St.

National Rosin, Oil & Size Co., 90 West St.

*Rosin & Turpentine Export Co., 26 Cortlandt St.

United Naval Stores Co., 130 Pearl St.

Ohio, Cincinnati

*Winkler & Bro., Isaac

Wis., Milwaukee

Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Turpentine, Gum Spirits of*La., Elizabeth*

Producers Turpentine Co.

Ohio, Cincinnati

*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Turpentine, Imitation Venice*Ga., Savannah*

Southern Oil & Chemical Co.

Turpentine, Venice*N. Y., New York City*

Zobel Co., Inc., Ernest, 38 Water St.

Turpentine, Wood Spirits of*N. Y., New York City*

Georgia Pine Turpentine Co., of N. Y., 160 Perry St

Turpentine, Wood, Steam Distilled*La., Elizabeth*

Producers Turpentine Co.

Ultramarine (see Blue Ultramarine)**Umbur, Burnt and Raw Lump***Cal., San Francisco*

*Dill-Crosett, Inc., 235 Pine St.

Ill., Chicago

*Dauger & Co., A., 54 W. Kinzie St.

Pa., Philadelphia

Meyer & Sons, J., 480 Bourse Bldg.

Uranium Acetate*N. Y., New York City*

*Cooper & Co., Charles, 194 Worth St.

*Merck & Co., 45 Park Place

Pa., Philadelphia

Foote Mineral Co., Inc., 113 N. 19th St

Uranium Chloride*N. Y., New York City*

*Cooper & Co., Charles, 194 Worth St.

*Merck & Co., 45 Park Place

Uranium Nitrate*Ill., Chicago*

Carnolite Reduction Co.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Uranium Ore*Colo., Montrose*

*Willmarth, O. Barlow, Keller Bldg.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Powers-Weighman-Rosengarten Co.

Uranium Oxide*Colo., Denver*

Chemical Products Co., 612 Majestic Bldg.

Ill., Chicago

Carnolite Reduction Co.

Pa., Philadelphia

*Foote Mineral Co., 107 N. 19th St.

Uranium Oxide, Hydrated*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Urea

N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Vaccine

D. C., Washington
National Vaccine & Anti-Toxin Institute, 1513 W St. N. W.

Vaccines, Bacterial

Ind., Indianapolis
Eli Lilly & Co., 224 E. McCarthy St.

Mich., Kalamazoo
Upjohn Co.

Pa., Philadelphia
Mulford Co., H. K.

Vanadates

Cal., Los Angeles
Calm, C. E., California Club

Vanadic Oxide

N. Y., New York City
*Merck & Co., 45 Park Place
Metal & Thermit Corporation, 120 Broadway

Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.

Pa., Primos
Primos Chemical Co.

Vanadium (see also Alloys)

Colo., Denver
Radium Co. of Colorado

Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.

N. Y., New York City
Metal & Thermit Corporation, 120 Broadway

Pa., Philadelphia
Foote Mineral Co., 111 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh
American Vanadium Co.
Standard Alloys Co.
Standard Chemical Co.

Vanadium Chloride

Primos Chemical Co.
Pa., Primos
Primos Chemical Co.

Vanadium Pentoxide

Pa., Pittsburgh
American Vanadium Co.
Pa., Primos
Primos Chemical Co.

Vanadium Salts

N. Y., New York City
Radium Luminous Material Corporation, 55 Liberty St

Pa., Pittsburgh
Standard Alloys Co., Forbes and Meyren Aves.

Vanilla Beans

N. Y., New York City
*Magnus, Mabee & Reynard, Inc., 257 Pearl St.

Va., Richmond
Sauer Co., C. F.

Vanillin

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Sethness Co.

Mo., St. Louis
Monsanto Chemical Works, 2nd St. and LaFayette Ave.

N. J., Newark
Verona Chemical Works

N. Y., New York City
Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.
Hoffman-La Roche Chemical Works, 440 Washington St.
*Lueders & Co., George, 218 Pearl St.
Magnus, Maybee & Reynard, 257 Pearl St.

Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Stilwell & Co., A. A., 28 Cliff St.

Varnishes (see also Shellac)

Ill., Chicago
Redmanol Chemical Products Co., 648 W. 22d St.

Sears, Roebuck & Co.

N. J., Jersey City
Eagle Printing Ink Co., 265 Gates Ave.

N. J., Newark
Jaenecke-Ault Co., Ave. B and Wright St.

Murphy Varnish Co., Chestnut and McWhorter Sts.

N. Y. Buffalo
Pratt & Lambert, Inc., 75-97 Tonawanda St.

N. Y., New York City
Calman, Emil & Co., 100 William St.
General Bakelite Co., 100 William St.
Sinclair & Valentine Co., 611 W. 129th St.

Ohio, Cleveland
Glidden Co., Madison Ave. and Berea Road

Pa., Philadelphia
French & Co., Samuel H., 410 Callowhill St.

England, West Bromwich
Lewington Whitehouse, Olympic Wks., Carters Green

Varnishes, Acid Proof*Ill., Chicago*Redmanol Chemical Products Co., 648
W. 22d St.**Varnishes, Bakelite***N. Y., New York City*

General Bakelite Co., 100 William St.

Varnish Gums (*see Gums, Varnish*)**Varnish, Photogravure***N. J., Passaic**Wolff & Co., Jacques, 342 Lexington
Ave.**Varnish Removers***N. Y., New York City*

Berry Brothers, 262 Pearl St.

Varnishes, Electrical Insulating*Mo., St. Louis*

Dielectric Mfg Co

Varnishes, Litho*N. J., Newark*Jaenecke-Ault Co., Ave. B and Wright
St.**Verdigris***N. Y., New York City*

Innis, Speiden & Co., 46 Cliff St.

Van Brunt & Co., Inc., J. A., 114 John
St.**Violet, Acid Swiss***N. Y., New York City*L. & R. Organic Products Co., Inc., 27
Thames St.**Violet, Crystal***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Violet, Dahlia***Ill., Chicago*Research Laboratory of Chicago, 467
E. Ontario St.**Violet, Direct B-Extra Conc.***R. I., Providence*Agawam Chemical Works, 10 Weybos-
set St.**Violet, Direct R Conc.***R. I., Providence*Agawam Chemical Works, 10 Weybos-
set St.**Violet, Gentian***Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.**Violet, Methyl***Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Research Laboratory of Chicago, 467
E. Ontario St.*N. Y., Brooklyn*Zobel Color Works, Inc., 95-127 Ninth
St.*N. Y., New York City*Dicks, David & Broadfoot Inc., 302
BroadwayHellenic Chemical & Color Co., Inc.,
1 Cedar St.L. & R. Organic Products Co., Inc.,
27 Thames St.

Meth-O-Lene Co., Inc., 81 Fulton St.

*Pa., Philadelphia*Harmer Laboratories Co., 1704 Market
St.*W. Va., Huntington*

Lamie Chemical Co.

Water, Distilled*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

*N. Y., New York City*Cooper & Co., Charles H., 194 Worth
St.*N. Y., Syracuse*

Porter & Clancy, 200 James St.

Pa., Philadelphia

Powers-Weightmann-Rosengarten Co.

Waterglass (*see Sodium Silicate*)**Water Purifiers***Ind., East Chicago*

Graver Tank Works, Wm.

Ohio, Cincinnati

Globe Chemical Co., 1135 Regent Ave.

*N. Y., New York City*Reisett Automatic Water Purifying
Co., 23 E. 26th St.**Water Softener***Ind., East Chicago*

Graver Tank Works, Wm.

Ohio, Cincinnati

Globe Chemical Co., 1135 Regent Ave.

N. Y., New York City

Permutit Co., The, 440 4th Ave.

Reisett Automatic Water Purifying
Co., 23 E. 26th St.**Waterproofing Materials***Md., Baltimore*

Interocean Oil Co.

*N. Y., New York City*Schwenker, Inc., W. M., 340-344 E. 92d
St.

United States Asphalt Refining Co.

*Pa., Philadelphia*Barber Asphalt Paving Co., Land
Title Bldg.

Waterproofing Preparations

N. Y., New York City
Brandes Chemical Co., 8th Ave.

Waterproofing Solutions

N. J., Passaic
Wolf, Jacques & Co.

Wax, Bees

Ill., Chicago

*Daugger & Co., A., 54 W. Kinzie St.

*Rhodes & Co., James H., 157 Austin Ave.

Mich., Charlotte

Charlotte Drug Co.

N. Y., New York City

*Baker & Bro., H. J., 81 Fulton St.

National Aniline & Chemical Co., 21

Burling Slip

Ohio, Medina

Root Co., A. I.

Wax, Candellila

N. Y., New York City

*Francesconi & Co., J. C., 25 Beaver St.

*Innis, Speiden & Co., 40 Cliff St.

*Marden, Orth, Hastings Corp'n., 61 Broadway

Wax, Carnaba

N. Y., New York City

*Francesconi & Co., J. C., 25 Beaver St.

Innis, Speiden & Co., 40 Cliff St.

*Marden, Orth, Hastings Corp'n., 61 Broadway

National Aniline & Chemical Co., Inc., 21 Burling Slip

Wax, Ceresine

N. Y., New York City

National Aniline & Chemical Co., Inc., 21 Burling Slip

Wax, Japan

Mich., Charlotte

Charlotte Drug Co.

N. Y., New York City

National Aniline & Chemical Co., Inc., 21 Burling Slip

Mitsui & Co., Ltd., 65 Broadway

Wax, Paraffine

Ill., Chicago

National Petroleum Products Co.

N. Y., New York City

Edgertyn Aniline Corp., 118 William St.

Marden, Orth & Hastings Corp'n., 61 Broadway

Standard Oil Co., 26 Broadway

Texas Co., 17 Battery Place

Tide Water Oil Co., 11 Broadway

Okla., Tulsa

Empire Refineries Co., Unity Bldg.

Ohio, Cincinnati

Moore Oil Co.

Pa., Philadelphia

Atlantic Refining Co.

Pa., Pittsburgh

Atlantic Refining Co.

Gulf Refining Co.

Wax, Shellac

N. Y., New York City

Zobel Co., Inc., Ernst, 38 Water St.

Wax, Soluble

Mass., Atlantic

Bosson & Lane

N. J., Jersey City

Seydel Mfg. Co., Forrest and Halladay Sts.

Sizings Specialty Co.

N. Y., New York City

Marden, Orth, Hastings Corp'n., 61 Broadway

White Lead (*see Lead Carbonate, Basic*)

White, Vitro

Pa., Pittsburgh

Vitro Mfg. Co., 720 Bessemer Bldg.

Whiting

England, Liverpool

Brazendals & Co., 37 Leeds St.

Ill., Chicago

Central Commercial Co.

*Daugger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Chrystal, C. B., 11 Cliff St.

Dunn & Kruse, 53 Park Row

Hammill & Gillespie, 240 Front St.

Industrial Chemical Co., 200 5th Ave.

Taintor Mfg. Co., H. F., 2 Rector St.

Wolfram

N. Y., New York City

*Weymouth, Ralph W., 15-17 E. 40th St.

Wood Alcohol (*see Alcohol Methyl*)

Wood Creosotes (*see Creosote*)

Wood Extracts (*see Specific Headings*)

Wood Preservatives (*see Coatings, Acid Proof; Oils, Creosote; Paints, Acid Proof; Paints, Asphalt*)

Wright Stain*Pa., Philadelphia*

Harmer Laboratories Co., 1704 Market St.

Xeroform*N. Y., New York*Benzo Chemical Co., 39 Cortlandt St.
Chromos Chemical Co., Inc., Aeolian Hall**Xylene***Cal., San Francisco*

Standard Oil Co.

Conn., New Haven

New Haven Gas Light Co., 80 Crown St.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

*Ill., Chicago**Daigger & Co., A., 54 W. Kinzie St.
Gas Oil Co. of Indiana, Peoples Gas Bldg.

Lewis Mfg. Co., F. J., 2500 S. Robey St.

Ind., Indianapolis

Citizens Gas Co., Majestic Bldg.

Ind., Terre Haute

Indiana Coke & Gas Co.

Iowa, Des Moines

Des Moines Gas Co.

N. J., Elizabeth

Bayway Chemical Co.

N. Y., New York City

Aetna Explosive Co., Inc., 120 Broadway

Barrett Co., 17 Battery Place

Edison International Corporation, 165

Broadway

Edgertyn Aniline Corporation, 118 William St.

Klipstein & Co., A., 644 Greenwich St.

National Aniline & Chemical Co., 21

Burling Slip

Rector Chemical Co., 2 Rector St.

N. Y., Syracuse

Semet-Solvay Co.

Ohio, Cleveland

Sherwin-Williams Co.

Ohio, Youngstown

Brier Hill Steel Co.

Pa., Philadelphia

Cambria Steel Co., Widener Bldg.

Harmer Laboratories Co., 1704 Broadway

Midvale Steel & Ordnance Co., Widener Bldg.

United Gas Improvement Co.

Pa., Pittsburgh

Carnegie Steel Co.

Midvale Steel Co.

Xylene (Ortho)*Mo., St. Louis*

Heil Chemical Co., 210-214 S. 4th St.

N. Y., New York City

Merck & Co., 45 Park Place

Xylenols*N. J., Elizabeth*

Bayway Chemical Co.

N. Y., New York City

Barrett Co., 17 Battery Place

Xylidine*Del., Wilmington*

Du Pont de Nemours & Co., E. I.

N. J., Newark

Central Dyestuff & Chemical Co., Plum Pt. Lane

N. J., Bound Brook

Calco Chemical Co.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Chemical Co. of America, 28 Platt St.

Klipstein & Co., A., 644 Greenwich St.

Marden, Orth & Hastings Corp'n, 61 Broadway

National Aniline & Chemical Co., Inc.,

21 Burling Slip

Transatlantic Chemical Corporation, 192 Broadway

Ohio, Cleveland

Sherwin-Williams Co.

Pa., Philadelphia

Harmer Laboratories Co., 1704 Market St.

Xylidine, Meta*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Xylidine, Para*R. I., Providence*

Agawam Chemical Works, 10 Weybosset St.

Xylol (see Xylene)**Yeast***D. C., Washington*

Corby Co., The

N. Y., Peekskill

Fleischmann Mfg. Co.

Ohio, Cincinnati

Fleischmann Co.

Yellow, A Concentrated, Jenyl*Mass., Boston*

Jennings & Co., Inc., 93 Broad St.

Yellow, Acid

N. Y., New York City
Dye Products & Chemical Co., Inc.,
200 Fifth Ave.

Yellows, Acid (Wool)

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Yellows, Alizarine

N. J., Passaic
Wolf, Jacques & Co., 342 Lexington
Ave.

N. Y., New York City
Drug & Dyestuff Corp., 120 Broadway

Yellow, Cotton, R

N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

Yellow, Direct

N. Y., New York City
L & R. Organic Products Co., Inc.,
27 Thames St.

R. I., Providence
Agawam Chemical Works, 10 Weybos-
set St.

Yellows, Direct (Cotton)

N. J., Bound Brook
Peerless Color Co., Inc.

N. J., Passaic
American Color Mfg. Co., Gregory
Ave. & River Rd., (Passaic)

N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

N. Y., New York
Dicks, David Co., Inc., 302 Broadway

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Yellow, Direct Fast

N. J., Bound Brook
Peerless Color Co., Inc.

Pa., Philadelphia
Pennsylvania Color Mfg. Co., 248
Chestnut St.

Yellow, Fast Light 2 G. Swiss

N. Y., New York City
L. & R. Organic Products Co., Inc.,
27 Thames St.

Yellow, Direct, G

Pa., Reading
Althouse Chemical Co., 500-540 Pear
St.

Yellow, 3 G.

Ohio, Sandusky
Hord Color Products Co., S. Columbus
Ave.

Yellow, Jenyl Chlorfast

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellow, Katheton Olives

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellow, Metanil

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market
St.

Yellow, Naphthol

Pa., Philadelphia
Harmer Laboratories Co.

Yellow, Naphthol Certified

Ohio, Sandusky
Hord Color Products Co., S. Columbus
Ave.

Yellow, Naphthol S.

Ohio, Sandusky
Hord Color Products Co., The, S.
Columbus Ave.

Yellow, Union

Pa., Reading
Althouse Chemical Co.

Yohimbin Hydrochloride

N. Y., New York City
Lehn & Fink, Inc., 120 William St.

Zellerol

Cal., Los Angeles
*Bobrick Chemical Co., 111-117 S.
Garey St.

"Zeta" Sulphur (see Dyestuffs)**Zinc**

England, Mowckster
Willecocks & Co., Ltd., H. S., 5 Beaver
St

Ill., Chicago
Great Western Smelting & Refining
Co

Mineral Paint Zinc Co., 140 S. Dear-
born St.

Ill., Danville
Hegeler Zinc Co.

Ill., La Salle
Matthiesen & Hegeler Zinc Co.

Ill., Peru
Illinois Zinc Co

Mass., Boston
American Zinc Lead & Smelting Co.,
55 Congress St.
Richards & Co., Inc.

Zinc—cont.*Mich., Detroit*

Michigan Smelting & Refining Co.

N. J., Sewaren

Vulcan Detinning Co.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

American Smelting & Refining Co.,
120 BroadwayBartlettsville Zinc Co., 52 Broadway
Electrolytic Zinc Co., Inc., 3 William
St., S.Metal & Thermit Corporation, 120
BroadwayMetals Disintegrating Co., 62 Broad-
way

New Jersey Zinc Co., 160 Front St.

Wah Chang Corporation, Woolworth
Bldg.*Ohio, Cleveland*

Grasselli Chemical Co.

*Pa., Philadelphia*U. S. Smelting Works, 1615 Spring
Garden St.**Zinc (Dust)***Ill., Chicago*

Great Western Smelting & Refining Co.

Ill., Danville

Hegeler Zinc Co.

Ill., La Salle

Matthiesen & Hegeler Zinc Co.

Ill., Peru

Illinois Zinc Co.

*Mass., Boston*American Zinc Lead & Smelting Co.,
55 Congress St.

Richards & Co., Inc.

Mich., Detroit

Michigan Smelting & Refining Co.

N. J., Sewaren

Vulcan Detinning Co.

*N. Y., New York City*American Metal Co., Ltd., 61 Broad-
wayAmerican Smelting & Refining Co.,
120 BroadwayBartlettsville Zinc Co., 52 Broadway
Electrolytic Zinc Co., Inc., 3 William
St., S.Metal & Thermit Corporation, 120
BroadwayMetals Disintegrating Co., 62 Broad-
way

New Jersey Zinc Co., 160 Front St.

Wah Chang Corporation, Woolworth
Bldg.*Ohio, Cleveland*

Grasselli Chemical Co.

*Pa., Philadelphia*U. S. Smelting Works, 1615 Spring
Garden St.**Zinc (Electrolytic) 99.95% pure***Colo., Denver*Western Chemical Mfg. Co., S. Osage
and W. Bayaud Sts.**Zinc (Metallic), Granulated
Technical***N. Y., New York City*Cooper & Co., Charles, 194 Worth St.
New Jersey Zinc Co., 55 Wall St.**Zinc Acetate, Hydrated or
Fused***Ohio, Cincinnati*Buchanan Products Co., C. G., 118 E.
Pearl St.**Zinc Arsenate***Cal., Watsonville*

California Spray Chemical Co.

*Mo., St. Louis*Mallinckrodt Chemical Works, 3600
N. 2d St.**Zinc Borate***Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. Y., New York City

Klipstein & Co., A., 644 Greenwich St.

Zinc Carbonate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

N. J., Matawan

Manning Loeb Co.

*N. J., Newark*Hanson & Van Winkle Co., 269 Oliver
St.*N. Y., Brooklyn*

Wiarda & Co., John C., 273 Green St.

*N. Y., New York City*Cooper & Co., Charles, 194 Worth St.
Merck & Co., 15 Park Place*England, Wolverhampton*

Bailey & Sons, William

*Ohio, Cleveland*Harshaw, Fuller & Goodwin Co., 317-
323 Electric Bldg.*R. I., Providence*

Agawam Chemical Works

Zinc Carbonate, Basic Tech.*Ohio, Cincinnati*Buchanan Products Co., C. G., 118 E.
Pearl St.**Zinc Chloride***England, Smithy Bridge, near Rochdale*

Dearhead Chemical Co.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St.

Mass., Boston

Avery Chemical Co., 88 Broad St.

Merrimac Chemical Co., 32 Broad St.

Richards & Co., Inc., 200 Causeway St.

United Indigo & Chemical Co., 178
Federal St.

Zinc Chloride—cont.*Mo., St. Louis*

Commercial Acid Co., 3943 Duncan Ave.

Lambert Chemical Co., Railway Exchange Bldg.

Monsanto Chemical Works, 2nd St. and LaFayette Ave.

N. Y., Brooklyn

Robinson Bros., Montrose and Seneca Aves.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

*Baker & Bro., H. J., 81 Fulton St

Butterworth-Judson Corp., 61 Broadway

Cooper & Co., Charles, 194 Worth St. Edgertyn Aniline Corp., 118 William St

General Chemical Co., 25 Broad St.

Innis, Spenden & Co., Inc., 46 Cliff St.

Kalbfleisch Corp., 31 Union Sq. W.

Klipstein & Co., A., 644 Greenwich St.

Lamson & Bro., John L., 80 Maiden Lane

Merck & Co., 45 Park Place

New Jersey Zinc Co., 160 Front St

Roessler & Hasslacher Chemical Co., 100 William St.

Tennant Sons & Co., C., 100 William St.

Ohio, Cleveland

Grasselli Chemical Co., Arcade Bldg.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Pa., Pittsburgh

American Zinc & Chemical Co

R. I., Providence

Arnold, Hoffman & Co., Inc., 55 Canal St.

Wis., Milwaukee

Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Zinc Chloride, C. P. and Tech.*Ohio, Cincinnati*

Buchanan Products Co., C. G., 118 E. Pearl St.

Zinc Cyanide, Tech.*Ohio, Cincinnati*

Buchanan Products Co., C. G., 118 E. Pearl St.

Zinc Diborate*Ohio, Cincinnati*

Buchanan Products Co., C. G., 118 E. Pearl St.

Zinc Nitrate, C. P. and Tech.*Ohio, Cincinnati*

Buchanan Products Co., C. G., 118 E. Pearl St.

Zinc Oleate*N. J., Harrison*

National Oil Products Co., Essex and 1st Sts.

Ohio, Cincinnati

Buchanan Products Co., C. G., 118 E. Pearl St.

Zinc Oxide*England, Manchester*

Willcocks & Co., Ltd., H. S., 5 Beaver St.

Ill., Chicago

*Daigger & Co., A., 54 W. Kinzie St. Mineral Point Zinc Co., 140 S. Dearborn Ave.

Sandoval Zinc Co., 410 N. Peoria Ave.

Ill., East St. Louis

American Zinc Co. of Illinois

Illinois Mineral Milling Co.

N. Y., Brooklyn

*Warda & Co., John C., 273 Green St.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

American Smelting & Refining Co., 120 Broadway

*Baker & Bro., H. J., 81 Fulton St.

Cooper & Co., Charles, 194 Worth St. Edgertyn Aniline Corp., 118 William St.

Innis, Spenden & Co., Inc., 46 Cliff St.

*Katzenbach & Bullock Co., 100 William St

Klipstein & Co., A., 644 Greenwich St

Merck & Co., 45 Park Place

Metal & Thermit Corporation, 21 Burling Slip

National Aniline & Chemical Co., Inc., 21 Burling Slip

New Jersey Zinc Co., 160 Front St.

Schieffelin & Co., 170 William St.

Waldo, E. M. & F., 11 Broadway

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.

Pa., Philadelphia

French & Co., Samuel H., 4th and Callowhill Sts.

Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Powers-Weightman-Rosengarten Co., 9th & Parrish Sts.

Smith, Kline & French Co., 431 Arch St.

Pa., Williamsport

National Paint Works

Zinc Oxide, C. P. and Tech.*Ohio, Cincinnati*

Buchanan Products Co., C. G., 118 E. Pearl St.

Zinc, Oxide—U. S. P.*N. Y., New York City*

New Jersey Zinc Co., 160 Front St.

Zinc Palmitate*N. J., Harrison*

National Oil Products Co., Essex and 1st Sts.

Zinc, (Refined)*N. J., Trenton*

Engle, Robert H

Zinc Resinate*N. J., Harrison*

National Oil Products Co., Essex and 1st Sts.

N. Y., New York City

Klipstein & Co., A., 644 Greenwich St.

Ohio, Cleveland

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Meyer & Sons, J., 480 Bourse Bldg.

Zinc, Rolled*N. J., New York City*

New Jersey Zinc Co., 160 Front St.

Zinc Stearate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Mich., Charlotte

Charlotte Drug Co.

N. J., Harrison

National Oil Products Co., Essex and 1st Sts.

N. Y., New York City

Merck & Co., 45 Park Place

National Aniline & Chemical Co., 21

Burling Slip

New Jersey Zinc Co., 55 Wall St.

Ohio, Cincinnati

Buchanan Products Co., C. G., 118 E. Pearl St.

Pa., Philadelphia

Meyer & Sons, J., 480 482 Bourse Bldg.

Zinc Sulphate*Ill., Chicago*

*Daigger & Co., A., 54 W. Kinzie St.

Midland Chemical Co., 80 E. Jackson Blvd.

Md., Baltimore

*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.

Mo., Kansas City

National Zinc Co.

Mo., St. Louis

Mallinckrodt Chemical Co., 3600 N. 2d St.

N. J., Matawan

Munning Loeb Co

N. Y., Brooklyn

Wiarda & Co., John C., 273 Green St.

N. Y., New York City

Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Beer, Sondheimer & Co., 61 Broadway

Cooper & Co., Charles, 194 Worth St.

Innis, Speiden & Co., Inc., 46 Cliff St.

Klipstein & Co., A., 644 Greenwich St.

Merck & Co., 45 Park Place

New Jersey Zinc Co., 55 Wall St.

Roessler & Hasslacher Chemical Co., 100 William St.

Ohio, Cincinnati

Buchanan Products Co., C. G., 118 E. Pearl St

Ohio, Cleveland

Grasselli Chemical Co.

Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia

Powers-Weightman-Rosengarten Co.

Pa., Pittsburgh

Mortland Chemical Co.

Tenn., Copperhill

Tennessee Copper Co.

Utah, Salt Lake City

American Smelting & Refining Co.

Zinc Sulphocarbonate*Ill., Chicago*

Abbott Laboratories, The, 4753 Ravenswood Ave.

Zirconium*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Zirconium Oxide*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Zirconium Silicate*Pa., Pittsburgh*

Vitro Mfg. Co., 720 Bessemer Bldg.

Pa., Philadelphia

Foote Mineral Co., 120 N. 19th St.

Zirkite*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Zirkite Brick*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Zirkite, Refractories*Pa., Philadelphia*

Foote Mineral Co., 120 N. 19th St.

Zirkonalba—90% ZrO₂*Pa., Philadelphia*

Foote Mineral Co., 107 N. 19th St.

Zulite*N. J., Elizabeth*

Bayway Chemical Co.

II. MANUFACTURERS AND DEALERS OF CHEMICALS AND ALLIED PRODUCTS

Ala., Birmingham

Ajax Metal Co.
Birmingham Fertilizer Co., The
Gulf States Steel Co., Brown-Marx
Bldg.
Jefferson Fertilizer Co.
Tennessee Coal, Iron & R. R. Co.

Ala., Crichton

Crichton Wood Products Co.

Ala., Dothan

Home Guano Co.

Ala., Florence

U. S. Government Nitrogen Plant.

Ala., Gadsden

Gadsden Fertilizer Co.

Ala., Leeds

Canada Mineral Co.

Ala., Mobile

Taylor, Loewenstein & Co.

Ala., Montgomery

Alabama Chemical Co.

Bear Lewis Drug Co.

Ala., Roanoke

Roanoke Guano Co.

Ala., Talladega

Planters Chemical & Oil Co.

Ala., Troy

Standard Chemical & Oil Co.

Ala., Woodward

Woodward Iron Co.

Ark., Fort Smith

Industrial Laboratories, Inc.

Ark., Little Rock

Arkansas Fertilizer Co.

Arkansas Soapstone & Refractories
Co.

Cal., Agnew

Western Industries Co.

Cal., Berkeley

Catalytic Chemical Co., 3d and Ban-
croft Sts.

Pacific Guano & Fertilizer Co.

University Apparatus Co.

Cal., Chula Vista

Hercules Powder Co.

Cal., Corona

Exchange By-Product Co.

Cal., Highland

Thompson & Son, R. S.

Cal., Long Beach

International Potash Products Co.

Western Chemical Mfg. Co.

Cal., Los Angeles

American Olive Co.

Armour Fertilizer Works, 119 Central
Ave.

Bobrick Chemical Co., 111-117 S.
Garey St.

*Braun Corporation, The

California Food Products Co.

General Petroleum Corporation

Hauser Packing Co., E. 9th and Mateo
St.

Hercules Oil Refining Co., 608 S. Main
St.

Hill Chemical Co., C. W., 326 S. San
Pedro St

Mexican Petroleum Co.

Oceanic Engineer Co.

*Pacific Chemical Co., 1421 N. Main
St.

Pacific Mineral Products Co.

Riverside Portland Cement Co., Title
Insurance Bldg.

Sirch Electrical & Testing Labora-
tories.

Southern Refining Co., 129 W. 2d St.

Star Specialty Co.

Sterling Borax Co., 215 W. 6th St.

Union Oil Co. of Cal., 215 W. 7th St.

Cal., Oakland

Butters, Charles

Pacific Coast Borax Co.

Cal., Owens Lake

California Alkali Co.

Cal., Redlands

Citrus Products Co.

Kingsbury, H. P. D.

Cal., Riverside

Riverside Portland Cement Co.

Cal., San Diego

Lower California Chemical Co.

Cal., San Francisco

Amalgamated Oil Co., Sharon Bldg.

American Cream Tartar Co., 624 Cali-
fornia St.

American Trading Co

Atkins Kroll & Co., 311 California Ave.

Barbour Chemical Works, 707 West
Coast Life Bldg.

Bass-Hunter Paint Co., 816 Mission St.

Bayle La Coste & Co., 444 Pine St.

Beckman & Linden Engineering Corp,
415 Balboa Bldg.

Cal., San Francisco—cont.

Braun-Knecht-Heimann Co., 584 Mission St.
 Bloom & Sons, Samuel, Army and Potrero Aves.
 *Breslauer, A., 485 California St.
 California Alkali Co.
 California Aniline & Chemical Co., 33 Clementina St.
 California Glue Co., Fairfax Ave. and Rankin St.
 California Ink Co., 41 Clementina St.
 California Wine Association
 *Central Commercial Co., 560 Sacramento St.
 Classen Chemical Co.
 Coffin, Redington & Co., 625 3d Ave.
 Conservative Rubber Production Co., Monadnock Bldg.
 *Dill-Cossett, Inc., 235 Pine St
 El Dorado Oil Works, 149 California Ave.
 Fuller & Co., W. P.
 Great Western Electrochemical Co., Holbrooke Bldg.
 Haas Brothers
 Hawaiian Fertilizer Co., 244 California St.
 Horst Co., E. Clements, 150 Pine St.
 Horstman Co., John, 685 Bryant St.
 Lower California Chemical Co.
 *McMains & Co., A. H., 24 California St.
 Moore & Co., Geo A., 212 California Ave.
 Mountain Copper Co., 332 Pine St.
 Nevada Sulphur Co., Merchant Exchange Bldg.
 Noble Electric Steel Co., Hewes Bldg.
 Pacific Guano & Fertilizer Co., 343 Sansome St.
 Pacific Refining & Roofing Co., 16th and Texas Ave.
 Paraffine Paint Co., 34 First St.
 San Francisco Chemical Co., 332 Pine St.
 San Francisco Sulphur Co., 624 California Ave.
 Selby Smelting & Lead Co., Merchants' Exchange Bldg.
 Standard Portland Cement Co., Title Insurance Bldg.
 Stauffer Chemical Co., 1624 California Ave.
 Tarter Chemical Co., 135 William St.
 Union Sugar Co., 310 Sansome St.
 Union Superphosphate Co., 343 Sansome St.
 Western Grain & Sugar Products Co., 110 Sutter St.
 Wheeler, Reynolds & Stauffer, 624 California St.

Cal., Santa Cruz

Santa Cruz Portland Cement Co.

Cal., Summerland

U. S. Dept. of Agri. Exp. Plant.

Cal., Trona

American Trona Corporation.

Cal., Vernon

Internal Dye Products Co.

Cal., Watsonville

California Spray Chemical Co.,

Cal., West Berkeley

California Aniline & Chemical Co.

Catalytic Chemical Co., 3rd and Bancroft St.

Can., B. C., Queen Charlotte Islands

International Chemical Co.

Canada, Buckingham

Electric Reduction Co., Ltd.

Can., Modoc, Ont.

Gillespie Co., Geo. H.

Can., Montreal, P. Q.

Canadian Electro Products Co., Ltd., 611 Power Bldg.

Can., Orillia, Ont.

International Molybdenum Co., Ltd.

Can., St. Catharines, Ont.

Coniagas Reduction Co., Ltd.

Can., Shawinigan Falls, Quebec

Canadian Electro Products Co., Ltd., Office, Power Bldg., Montreal

Can., Ontario, Gravenhurst

Canadian Potash Corporation

Can., Toronto, Ont.

Canadian Ammonia Co., Ltd., Heward Ave.

Can., Quebec

L'Air Liquid Société

Colo., Boulder

Black Metal Reduction Co.

Boulder Tungsten Produce Co.

Luckie 2 Mfg. Co.

Primos N. & M. Co.

Tungsten Metals Co.

Vasco Mining Co.

Colo., Denver

American Coal Reduction & By-Products Mfg. Co.

The Chemical Products Co., 612-616 Majestic Bldg.

Colorado Fuel & Iron Co., Boston Bldg.

Colorado Radium Products Co.

Denver Fire Clay Co., 1742 Champ St.

Mine & Smelter Supply Co.

Radium Co. of Colorado

Ragged Top Mfg. Co.

Rare Metals Ore Co.

United Oil Co., First National Bank Bldg.

U. S. Rare Minerals Co.

Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Colo., Grand Junction

Latimer Chemical Co.

- Colo., Montrose*
*Willmarth, O. Barlow, Keller Bldg.
- Colo., Pueblo*
Norcross Chemical Co.
- Colo., Sugar Loaf*
Mojave-Bouldef Tunsten Mfg. Co.
- Conn., Bridgeport*
Canfield Rubber Co., 129 Garden St.
Siemon Hard Rubber Corp.
- Conn., Derby*
Derby Gas Co.
- Conn., Hartford*
Eastern Chemical Works
*Ney Co., J. M.
Olds & Whipple
Sisson Drug Co.
- Conn., Middletown*
Rogers & Hubbard Co.
- Conn., Mystic*
Wilcox Fertilizer Co.
- Conn., Naugatuck*
Naugatuck Chemical Co.
- Conn., New Haven*
Hubinger Bros. Co., J. C.
Kolynos Co., 130 Bristol St.
New Haven Gas Light Co., 80 Crown St.
Sanderson Fertilizer & Chemical Co.
- Conn., Seymour*
Seymour Mfg. Co.
- Conn., Stamford*
American Synthetic Color Co.
Celluloid Zapon Co. (Factory)
Stamford Extract Mfg. Co.
Stamford Rubber Supply Co.
- Conn., Waterbury*
Apothecaries Hall Co.
- Del., Lewes*
Lewes Fisheries Co.
- Del., Milford*
Caulk Co., The L. D.
- Del., Newport*
Krebs Pigment & Chemical Co.
- Del., Wilmington*
Atlas Powder Co.
Du Pont Chemical Co.
du Pont De Nemours Co., E. I.
Hercules Powder Co., 10th and Market Sts.
International Smokeless Powder & Chemical Co.
Mineral Products Mfg. Co.
- D. C., Washington, Congress Heights*
Capital Chemical Co., 621 Alabama Ave.
- D. C., Washington, Landon*
Corby Co., The
- D. C., Washington*
American Rutile Co., 622 F St. N. W.
Lamb & Tilden, 725 13th St. N. W.
National Vaccine & Anti-Toxin Institute, 1513 W. St., N. W.
- Eng., Accrington*
Phoenix Chemical Co., Ltd., The,
- Eng., Birmingham*
Belchers (Standley) & Mason, Ltd., Church St.
Fram Mfg. Co., Ltd., Ellis St.
- Eng., Darlington*
Parkin, Ness & Co., Quebec St.
- Eng., Essex, Loughton*
Madderton & Co., Ltd.
- Eng., Lancashire, Chorley*
Botany Chemical Works
Threlfall & Sons, Thos.
- Eng., Lancashire, Edenfield*
Sharp, Ltd., J. B. & W. R.
- Eng., Liverpool*
Brazendals & Co., 37 Leeds St.
Clayton & Jowett, Ltd., 5 Concert St.
*Haddock Parker & Co., 14 Chapel St.
- Eng., London*
*American Commerce Co., Ltd., The, 19 St. Bride St.
Berk & Co., Ltd., F. W., 1 Fenchurch Ave. (E. C. 3.)
*Dexters, Ltd., 362 City Road
Franklin Chemical Co., Ltd.
- Eng., Manchester*
Barclay, Hobson & Co., Ltd., Harpurhey
*Hall, George D. A., 33 Mosley St.
Robinson & Co., H. F., Newton Heath
Spence & Sons, Ltd., Peter
Victors, Ltd., Victoria Bldg.
*Willecocks & Co., Ltd., H. S., 5 Beaver St., Whitworth St.
- Eng., Oldham*
Granville Wood & Co., Ashcroft St.
- Eng., Sheffield*
Newsholins, Ltd., G. T. W., 27 High St.
- Eng., Smithy Bridge, near Rochdale*
Dearhead Chemical Co.
- Eng., Stockport*
Cornbrook Chemical Co., Ltd.
- Eng., Sussex*
Standard Tablet Co., Ltd., The
- Eng., West Bromwich*
Lewinton Whitehouse, Olympic Works, Carters Green
- Eng., Widnes*
Alumina Co., Ltd., The
- Eng., Wolverhampton*
Bailey & Son, William
Reade Bros. & Co., Ltd.
- Fla., Gainesville*
Florida Fertilizer Mfg. Co.
- Fla., Gulf Point*
Pensacola Tar & Turpentine Co.
- Fla., Jacksonville*
Armour Fertilizer Works
Consolidated Land Co.
Florida Wood Products Co.
Jacksonville Chemical Mfg. Co.

Fla., Jacksonville—cont.

Painter Fertilizer Co., E. O.
 Peninsular Naval Stores Co.
 Wilson & Toomer Fertilizer Co.

Fla., Lakeland

Lakeland Phosphate Co.

Fla., Ocala

Camp Phosphate Co.

Fla., Pierce

Pierce Phosphate Co.

Fla., Rockwell

Dunnellon Phosphate Co.

Fla., Tampa

Gulf Fertilizer Co.

Ga., Atlanta

Adair, A. D., & McCarty Bros.
 Armour Fertilizer Works
 Chickamauga Fertilizer Co.
 Empire Cotton Oil Co.
 Marietta Fertilizer Co.
 Morris Fertilizer Co.
 Old Dominion Guano Co.
 Phenix Supply Co.
 Porter Fertilizer Co.

Ga., Augusta

Georgia Chemical Works
 Georgia Cotton Oil Co
 Neely & Wilcox
 South Atlantic Fertilizer Co.
 Southern States Phosphate & Fertilizer Co.

Ga., Athens

Empire State Chemical Co.
 Georgia Phosphate Co.
 Marietta Fertilizer Co.
 Southern Refining Co.

Ga., Brunswick

Yaryan Rosin & Turpentine Co.

Ga., Cartersville

Big Tom Barytes Co.
 Cherokee Ochre Co.
 Georgia Peruvian Ochre Co.
 New Riverside Ochre Co.
 Paga Mining Co.
 South Leasing Co.

Ga., Macon

Columbia Guano Co.
 Cotton States Seed & Fertilizer Co.

Ga., Montezuma

Montezuma Fertilizer Co.

Ga., Savannah

Alexander & Co., Inc., G. S.
 American Naval Stores Co.
 Antwerp Naval Stores Co.
 Atlantic Turpentine Co.
 Barker Chemical Co.
 Comer & Co., E. T.
 Crum & Co., W. R.
 Hull & Co., James
 Lang & Co., J. M.
 London & Savannah Naval Stores Co.
 Mutual Fertilizer Co.
 National Rosin Oil & Size Co.

Producers Naval Stores Co.

Reliance Fertilizer Co.

Savannah Guano Co.

Southern Fertilizer & Chemical Co.

Standard Naval Stores Co.

Southern Oil & Chemical Co.

Willcox-Ives & Co.

Willcox-Ives Oil Co.

Ill., Aurora

Coal Products Mfg. Co.

Jobbins, Inc., William F., 923 N. Lake St.

Ill., Chicago

Abbott Laboratories, The, 4753 Ravenswood Ave.

*Acme Asbestos Covering & Supply Co., 401 N. Ada St.

Adams & Elting Co., 712 Washington Boulevard

Adams Co., Fred C., 234 S. La Salle Ave.

Allen Co., L. B., 4545 N. Lincoln Ave.

Alston-Lucas Paint Co., Wade and Currier Sts.

American Coal Tar Products Co., 208 S. LaSalle St

American Extract Co., 129 W. Kinzie St.

American Pumice Co., Harris Trust Bldg.

American Steel & Wire Co., 212 S. La Salle St.

Armour & Co., Union Stock Yards

Armour Fertilizer Works, Union Stock Yards

Armour Glue Works, 137 La Salle Ave.

Armour Soap Works, 3130 Benson St.

Barrett & Barrett, 55 Austin Ave.

Barrett & Co., M. L., 233 W. Lake Ave.

Beckler Co., Jno. G., 722 Curtis St.

Birkenstein & Sons, S., 409 W. Ontario St.

*Burdett Mfg. Co., St. Johns Court

Burke & James, Inc., 240 E. Ontario St.

By-Products Coke Corporation

Carnotite Reduction Co.

*Central Asbestos & Magnesia Co., 214 W. Grand Ave.

• Central Chemical Co., 111 W. Washington St.

Central Scientific Co., 460 E. Ohio St.

Chapman & Smith Co., Washington Boulevard and S. Carpenter St.

Chicago Copper & Chemical Co., 111 W. Jackson Pl.

Chicago Varnish Co., 2100 Elston Ave.

Chicago White Lead & Oil Co., 15th and Western Ave.

Chisos Mining Co., The, 565 W. Washington St.

*Clark, Frank Co., 316 W. Kinzie St.

Ill., Chicago—cont.

Columbia Chemical Works, 220 W. Huron St.

Columbia Mineral Wool Co., 58 W. Washington St.

Consumers Refining Co., 76 W. Monroe St.

Cooper & Nephews, William, 152 154 W. Huron St.

Creamery Package Mfg. Co., 61 W. Kinzie Ave.

Cudahy Packing Co., 111 W. Monroe St.

Cutter Laboratory, The, 170 N. Dearborn Ave.

*Daigger & Co., A., 52 56 W. Kinzie St.

Darling & Co., 4201 S. Ashland Ave.

*Davidson Commission Co., 140 W. Van Buren St.

Dearborn Chemical Co., 332 S. Michigan Ave.

Deegan Supply Co., 116-122 W. Illinois St.

DeVauz Anti-Toxin Co., F. H., 159 N. State St.

Diamond Glue Co.

Diamond Match Co., 110 W. Kinzie St.

Eagle Pitcher Lead Co.

Fairbanks & Co., N. K., 7 S. Dearborn Ave.

*Freeman, John R., 348 N. Irving Ave.

Fuller & Fuller, 235 W. Randolph St.

*Furman, Jas. H., 326 W. Madison St.

Gas Oil Co. of Indiana, People's Gas Bldg.

Gazzolo Drug & Chemical Co., 119-123 S. Green St.

*German Kali Works, 1901 McCormick Bldg.

*Glaser & Crandell Co., 2000 S. Western Ave.

Glaser, Kohn & Co., 2000 S. Western Ave.

Goldsmith Bros., Smelting & Refining Co., Madison and Wabash Aves.

Great Western Smelting & Refining Co., 41st and Wallace Sts.

Heissler & Junge Co., 301 W. 39th St.

Heller & Co., B., 3925 Calumet Ave.

Heller Chemical Co., 900 Fulton St.

Hirsh, Hall & Co., 111 W. Washington St.

Holthster-Wilson Laboratories

Hutchinson & Son, W. H., 196 Des-
plaines St.

Illinois Steel Co., 208 S. LaSalle St.

Independent Brewing Co., 821 Black-
hawk St.

Inland Steel Co., First Nat. Bank Bldg.

Kelso & Co., 557 W. Quincy St.

*Laboratories Supply Co.

Laboratory Materials Co., 640 E. 71st
St.

Lewis Mfg. Co., F. J., 2500 S. Robey
St.

Lindsay Light Co., 161 E. Grand Ave.

Liquid Carbonic Co., 31st and Kenzie
Ave.

Lithflux Mineral & Chemical Works, 56
W. Randolph St.

Long Chemical Co., The Ed., 1276
Claybourne Ave.

Loraine Smelting & Refining Co., 25
N. Dearborn Ave.

Marvel Soap Paste Co., 2901 S. Canal
St.

*Merchants Chemical Co., 7 S. Dear-
born St.

Metal Products Co., 100 S. Jefferson St.

Midland Chemical Co., 80 E. Jackson
Blvd.

Mineral Paint Zinc Co.

Monahan Antiseptic Co., 166-172 Cur-
tis St.

Morris & Co., Union Stock Yards.

Morton Salt Co., 80 E. Jackson Blvd.

Mosso Laboratories, C. A., 2253 War-
ren Ave.

National Ox-Hydric Co.

National Steel & Copper Plate Co., 542
S. Dearborn St.

Nubian Paint & Varnish Co., 1856 Le
Claire Ave.

Obermayer Co., S.

Pease Co., C. F., 219 W. Institute
Place

Price Flavoring Extract Co., 29 E.
Illinois St.

Puhl-Webb Co., 624 W. Randolph St.

Randall Graphite Sheet Lubricator
Co., 816-818 W. Lake St.

Raven Mining Co., 1403 Dearborn Ave.

Raymond Lead Co., 910 W. Huron St.

Redmanol Chemical Co., 648 W. 22d St.

Research Laboratory of Chicago, 467
E. Ontario St.

Rhodes & Co., Jas. H., 157 W. Austin
Ave.

Russell Kincaid Co., 144 W. Austin
Ave.

Sall Mountain Co., 230 S. LaSalle St.

Sandoval Zinc Co., 410 N. Peoria St.

Sanford Mfg. Co., Congress and Peoria
Sts.

*Sardy Fertilizer Materials Co., J. B.,
140 W. Van Buren St.

*Schaar & Co., 1025 S. State St.

*Sears, Roebuck & Co., Homan and
Hanard Aves.

Sethness Co., 718 N. Curtis St.

Sherwin Williams Co., Pullman Sta-
tion

Sinclair Refining Co., Conway Bldg.

Stein, Hall & Co., Westminster Bldg.

Ill., Chicago—cont.

- Street & Co., R. R., 541 W. Washington St.
 *Stresen-Reuter & Hancock, Inc., 122 S. Michigan Ave.
 Stuart & Co., Inc., D. A., 29 S. La Salle St.
 Swift & Co., Union Stock Yards
 Thomson & Taylor Spice Co., 563 W. 22d St.
 Thorkliesyen-Mather Co., Harris Trust Bldg.
 United Chem. & Organic Products Co.
 United States Gypsum Co., 205 W. Monroe St.
 United States Silica Co., 122 S. Michigan Ave.
 U. S. Silica Co., 122 Michigan Blvd.
 Van Schaak & Son, 114 W. Lake St.
 Van Schaack Bros. Chemical Works, Avondale and Kimball Aves.
 Victor Chemical Works, 343 S. Dearborn St.
 Welch Mfg. Co., 1516 Orleans St.
 Western Aniline Products Co., 1160 Old Colony Bldg.
 Wilson & Co., 41st and Ashland Ave.

Ill., Chicago Heights

Dicks David & Heller Co.

Ill., Danville

Hegeler Bros.

Ill., Depue

Mineral Paint & Zinc Co.

Ill., East St. Louis

Illinois Mineral Milling Co.

Ill., Highland Park

Special Chemicals Co.

Ill., Hillsboro

Robert Lanyon Zinc & Acid Co.

Ill., La Salle

Carus Chemical Co.

La Salle Portland Cement Co.

Matheson & Hegelar Zinc Co.

Ill., Lemont

Illinois Pure Aluminum Co.

Ill., Madison

Kettle River Co.

Ill., Moline

Lewis Mfg. Co., F. J.

Ill., North Chicago

Pfanstiehl Co., Inc.

Ill., Oglesby

Illinois Clay Products Co.

Ill., Peoria

Allaire, Woodward & Co.

Clarke Bros. & Co.

Colburn, Birks & Co.

Keystone Steel & Wire Co.

Woolner & Co.

Ill., Peru

Illinois Zinc Co.

Ill., Quincy

Monroe Color & Chemical Co.

Monroe Drug Co.

Ill., Springfield

National Zinc Co.

Ill., Sterling

Massey & Massey Co.

Ill., Tamms

Tamms Silica Co.

Ill., Waukegan

North Shore Gas Co.

Ind., Cozville

Acme Glass Sand Co.

Ind., East Chicago

Graver Tank Works, Wm.

Ind., Evansville

Evansville Packing Co.

Uhl Pottery Co.

Ind., Fort Wayne

Bash Fertilizer & Chemical Co.

Ind., Greencastle

Greencastle Zinc & Lead Mining Co.

Ind., Hammond

Western Aniline Products Co., Morton Court

Ind., Indianapolis

Citizens Gas Co., Majestic Bldg.

Hoffman Co., Geo. Wm., 557 E. Washington St.

Eli Lilly & Co., 224 E. McCarthy St.

Pitman Moore Co.

Prest-O-Lite Co. Speedway.

Rauh & Sons, E., 427 S. Penn Ave.

Republic Creosoting Co., Merchants' Bank Bldg.

Ind., Lawrenceville

Central Refining Co.

Ind., Lawrenceburg

Rossville Co.

Walsh & Co., James

Ind., Linton

Linton Gas Co.

Ind., Marion

Western Drop Forge Works.

Ind., Muncie

Central Indiana Gas Co.

Ind., South Bend

O'Brien Varnish Co., Washington and Johnson Sts.

Ind., Terre Haute

Commercial Distilling Co., The
 Indiana Coke & Gas Co.

Iowa, Cedar Rapids

Douglas Co.

Iowa, Des Moines

Des Moines Gas Co.

Iowa, Fort Dodge

Plymouth Gypsum Co.

Kans., Kansas City

National Zinc Co., Packer Station

Ky., Ashland

Ashland Iron & Mining Co.

Ky., Georgetown

Indian Refining Co.

Ky., Louisville

Federal Chemical Co.
 Kentucky Refining Co.
 Louisville Soap Co., 2440 Floyd St.
 Standard Oil Co. (of Kentucky)

Ky., Marion

Kentucky Fluor Spar Co.

La., Crowley

Crowley Oil & Mineral Co.

La., Elizabeth

Producers Turpentine Co.

La., New Orleans

American Turpentine & Tar Co.
 American Zinc, Lead & Smelting Co.,
 55 Congress St.
 Barrett Mfg. Co., Hibernia Bank Bldg.
 Gulf Naval Stores Supply Co.,
 Jefferson Distilling & Denaturing Co.
 Louisiana Distilling Co.
 New Orleans Acid & Fertilizer Co.,
 Gretna Lane.
 Planters Fertilizer & Chemical Co.
 Seaboard Refining Co.
 Standard Guano & Chemical Mfg. Co.,
 Whitney Central Bldg.
 Union Naval Stores Co., Whitney Bldg.
 Wallhor Chemical Works, 1010 Camp
 St

La., Onvil

Covington Naval Stores Co.

Me., Bangor

Eastern Mfg. Co.

Me., Portland

Brown Co.
 Chisos Mining Co., The
 Electron Chemical Co., 534 Congress
 St.
 Portland Refining Co.

Md., Baltimore

Baugh & Sons Co., 27 S. Calvert St.
 Bloede Co., Victor G., Caton Ave.
 Burroughs Bros. Mfg. Co.
 Canton Corn Products Co., Clinton
 and 4th Ave.
 Clendenin Bros., Central and Fawn
 Sts.
 *Cottman & Co., J. H., Keyser Bldg.
 Davidson Chemical Co., South and
 German Sts.
 Hancock & Sons, John F., 4 S. Howard
 St.
 Hubbard Fertilizer Co., 802 Keyser
 Bldg.
 InterOcean Oil Co. (East Brooklyn)
 Island Petroleum Co., Keyser Bldg.
 *Lewis Importing & Mfg. Co., 1122 W.
 Saratoga St.
 Lord, Hy. W., 1628 Moreland Ave.
 Maryland Chemical Co., Columbia
 Ave. and B. & O. R. R.
 McCormick & Co., 722 E. Pratt St.
 Miller Fertilizer Co., 7 S. Gay St.
 Ober & Sons Co., G., Fidelity Bldg.

Patapsco Guano Co., Vickers Bldg.
 Rasin-Monumental Co., National Ma-
 rine Bank Bldg.

Robinson & Son Co., Wm. C., 32 South
 St.

Sharp & Dohme, Pratt & Howard Sts.
 *Sonneborn Sons, L., 513 W. Lombard
 St.

Standard Wholesale Phosphate Co.,
 Continental Bldg.

*Struven & Co., Chas. M., 114 S.
 Frederick St.

Thomsen Chemical Co., Race and
 Winder Sts.

Thomas Mfg. Co., 117 W. Camden St.
 Tidewater Portland Cement Co.

United States Fertilizer Co., Phoenix
 Bldg.

United States Industrial Chemical
 Co., Curtis Bay

Virginia Red Oil Products Corpora-
 tion, 3rd Ave. and 8th St.

*Walter Co., Edw. J., 803 American
 Bldg.

Webb & Son, A. L., 115-117 E. Lom-
 bard St.

*White & Co., Thos. H., Reed Bldg.

Md., Colgate

Electrolytic Zinc Co.

Md., Elkton

Scott Fertilizer Co.

Md., Hagerstown

Central Chemical Co.
 Security Cement & Lime Co.

Md., Hancock

Pennsylvania Glass Sand Co.

Mass., Andover

Tyer Rubber Co.

Mass., Atlantic

Bosson & Lane

Mass., Auburndale

Burnham Soluble Iodine Co.

Mass., Ayer

Ecculose Co. of America

Mass., Billerica

Billerica Glue Co.

Mass., Boston

Alliance Chemical Co., 178 Federal St.
 American Camphor Refining Co., 14
 Fulton St.

American Glue Co., 121 Beverly St.
 American Soda Fountain Co., 282
 Congress St.

Ashley & Co., F. C., 683 Atlantic Ave.
 Atlantic Chemical Co., 50 Congress St.

Atlantic Dyestuff Co., 8 Ames Bldg.
 Atteaux & Co., F. E., 176 Purchase St.

Avery Chemical Co., 88 Broad St.
 Bird & Co., J. A. & W., 88 Pearl St.

Bowdlear Co., W. H., 73 Broad St.
 Bowker Fertilizer Co.

Mass., Boston—cont.

Bradley Fertilizer Works, 92 State St.
 Brock Rubber Co., A. S.
 Burkhardt Brewing Co., Parker and Station St.
 Cabot, Godfrey L., 204 Washington St.
 Cabot, Samuel, Inc., 141 Milk St.
 Carters Ink Co., 239 Front St.
 Cochrane Chemical Co., 40 Central St.
 Consolidated Rendering Co., 40 N. Market St.
 Cordingley & Son, W. S., 229 A St.
 *Cronkhite Co., Inc., 185 Devonshire St.
 Davidson Rubber Co., 241 A St.
 Dennison Mfg. Co., 26 Franklin St.
 Dodge & Olcott, 128 Milk St.
 *Durfee, Winthrop C., 516 Atlantic Ave.
 Eastern Drug Co., 21 Fulton St.
 Eastern Tale Co.
 Eagle Oil & Supply Co., 44 India St.
 *Gahm & Son, J., Anchor and C. S. B.
 Jennings & Co., Inc., 93 Broad St.
 *King & Co., Inc., E. & F., 367 Atlantic Ave.
 Levinstein & Co., Inc.
 Leyland & Co., Thos., 60 India St.
 Linder & Meyer, 89 State St.
 Metcalf Co., Theo., 535 Boylston St.
 Merrimac Chemical Co., 33 Broad St.
 Mexican Petroleum Co., Security Bldg.
 Montgomery & Co., W. L., 146 Summer St.
 Murray Co., 224 State St.
 Neponset Color Co., Hyde Park.
 New England Fuel & Trans. Co., 111 Devonshire St.
 New England Gas & Coke Co., 24 West St.
 New England Rendering Co., Abattoir Grounds Br.
 Northern Industrial Chemical Co., 11 Elkins St.
 Patch & Co., E. L., 99 North St.
 Richards & Co., Inc., 200 Causeway St.
 *Rosentwist & Gorner, 26 India Sq.
 Salomon & Bro., L. A., 216 Pearl St.
 Shaw & Co., John, 15 Elkins St.
 Slade Co., D. & L., 189 State St.
 Smith & Nichols, 121 Maiden Lane
 *Stickney & Poor Spice Co., 184 State St.
 Thayer & Co., E. M., 411 Atlantic Ave.
 Union Oil Co., 215 W. 7th St.
 United Indigo & Chemical Co., 176 Federal St.
 United Lined Tube & Valve Co.
 U. S. Smelting, Refining & Mining Co., 5 Congress St.
 *Waite, Ranlet & Co., 80 Broad St.

Waltham Bleachery & Dye Works, 50 State St.
 Warren Bros. Co., 59 Temple Pl.
 Lobel Co., Inc., Ernest, 48 Cornhill St.
Mass., Cambridge
 The Exolon, 156 Sixth St.
 Lever Bros.
 Reardon & Sons Co., John
Mass., Fall River
 Fall River Gas Works
Mass., Leominster
 Danfourth Chemical Co.
Mass., Lowell
 Lowell Gas Light Co.
Mass., Melrose
 Melrose Chemical Co., Essex St.
Mass., New Bedford
 Davis Chemical Works, H. V.
 *Nye, Wm F.
Mass., Newton Lower Falls
 Sullivan Co., R. T.
Mass., N. Brookfield
 Quabang Rubber Co.
Mass., Norwood
 Morrill Co., Geo. H.
Mass., Peabody
 Clark Co., B.
Mass., Roxbury
 Baird & McGuire
Mass., South Boston
 Hub Dyestuff & Chemical Co., 595 E. 7th St.
 Northern Industrial Chemical Co., 11 Elkins St.
Mass., Springfield
 Baker Extract Co.
Mass., West Stoughton
 Stoughton Mills, Inc.
Mass., Worcester
 Brewer & Co.
 Marble & Co., J. Russell
 White & Bagley Co.
Mich., Bay City
 Northern American Chemical Co.
Mich., Cadillac
 Cadillac Chemical Co.
 Cummer-Diggins Co.
Mich., Charlotte
 *Charlotte Drug Co.
Mich., Detroit
 Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
 American Silica Co., Dime Bank Bldg.
 Berry Bros., Ltd., Leib and Weght Sts.
 Boydell Bros. White Lead & Color Co., 18 Congress St.
 Charcoal Iron Co. of America.
 Detroit Chemical Works, 238 Junction Ave.
 Detroit White Lead Works, 560 Milwaukee Ave.
 Digestive Ferments Co., 16 Locust St.

Mich., Detroit—cont.

Eaton & Son, Theo. H., 26 Woodward Ave.
 Goebel Brewing Co., 35 Rivard St.
 International Color & Chemical Co., 570 Franklin St.
 Masury & Son, J. W., 50 Jay St.
 Mexican Crude Rubber Co., Penobscot Bldg.
 Michigan Alkali Co., 1622 Ford Bldg.
 Michigan Ammonia Works, Meldrum St.
 Michigan Carbon Works, Carbon and Forman Aves.
 Michigan Stove Co., 1022 Jefferson Ave.
 Nelson Baker & Co., 58 Brooklyn Ave.
 Parke, Davis & Co.
 Savigny Co., 4 Adams Ave., W.
 Stearns & Co., Frederick
 Trus-Con Laboratories
 White Star Refining Co. 614 Avery Ave.
 Zenner Products Co., 133 35 Larned St.

Mich., Grand Rapids

Alabastine Co.
 Carpenter-Udell Co.
 Imperial Chemical Co.
 Richards-Wilson Pipe Covering Co., 325 Scribner Ave.

Mich., Huron

Huron Milling Co.

Mich., Kalamazoo

Todd Co., A. M.
 Upjohn Co.
 Western Papermakers Chemical Co.

Mich., Lansing

Lansing Chemical Co.

Mich., Menominee

Michigan Electrochemical Co., N State St.

Mich., Midland

Dow Chemical Co.
 Midland Chemical Co.

Mich., Muskegon

Michigan Tanning & Extract Co.
 Muskegon Extract Co.

Mich., Saginaw

United States Graphite Co.

Mich., Wells

Delta Chemical Co.
 Mashek Chemical & Iron Co.

Mich., Wyandotte

Ford Co., J. B.

Minn., Duluth

American Carbolite Co., 301 N. 55th Ave.
 Minnesota Steel Co., Morgan Park Station

Minn., Minneapolis

Archer-Daniels Linseed Co., 2901 S. E. 6th St.

Columbia Chemical Co.

Midland Linseed Products Co., 1101 S. 3d St.

Noyes Bros. & Cutler, 376 Sibley St.

Van Tilburg Oil Co., The

Minn., St. Paul

Minnesota By-Product Coke Co.

Minn., South St. Paul

National Serum Co.

Minn., West Duluth

Carbic Mfg. Co.
 Zenith Furnace Co.

Miss., Tupelo

Tupelo Fertilizer Works

Mo., Blackwell

Cole & Co., L. E.

Mo., Fletcher

Johnson Bros.

Mo., Independence

Independence Aniline & Refining Co.

Mo., Halifax

Carter & Co., H. C.

Mo., Henley

Reavis & Co., W. T.

Mo., Joplin

Picher Lead Co.

Mo., Kansas City

Hood, Abner, Chemical Co., 1409 W. 10th St.

Inter-Ocean Oil Co.

National Zinc Co., Main Office, 61 Broadway, New York City

Mo., Mineral Point

Point Milling & Mfg. Co.

Mo., Monroe

Monroe Color & Chemical Co.

Mo., Pacific

Pacific Glass Sand Co.

Mo., Potosi

Carr, A. H.
 Casey & McGregor

Long, James

South East Wisconsin Lead Co.

Mo., St. Louis

Alunite Co. of America

American Asphalt Association

American Oleite Co., 1404 N. Park Place

Antikamnia Chemical Co., 1624 Pine St.

Applegren Mfg. Co., F., 7th and Howard Sts.

Barnes Mfg. Co., 302 Valentine St.

Bell Mfg. Co., 104 Gratiot Ave

Blue Line Chemical Co., Granite Bldg.

Certain-teed Products Corporation

Commercial Acid Co., Boatmen's Bank Bldg.

Continental Chemical Co., 418 N. 3rd St.

Cranfield Mfg. Co., J. H., 1623 N. 7th St.

Mo., St. Louis—cont.

Cremoline Disinfecting Co., 17 S. Main St.
 Dielectric Mfg. Co.
 Donzelot & Son, Eugene, 16 S. Main St.
 Finch Mineral & Milling Co., J. C., 101 Barton St.
 *Heil Chemical Co., Henry, 210-214 S. 4th St.
 H. M. T. Chemical Co., Merchants Laclede Bldg.
 Hoyt Metal Co, Boatmen's Bank Bldg.
 Laclede Chemical Co., 616 Washington St.
 Laclede-Christy Co, Railroad Exchange Bldg.
 Laclede Gas Light Co., 1017 Olive St.
 Lambert Chemical Co, R. R. Exchange Bldg
 Mallinckrodt Chemical Works, 3600 N. 2d St.
 Lambert Chemical Co., Railway Exchange Bldg.
 Merrell Drug Co., U. S., 4th and Markets Sts.
 Midvale Chemical Co., 610 Locust St.
 Midvale Mining & Mfg. Co., 705 Olive St.
 Missouri Fire Brick Co.
 Monsanto Chemical Works, 1800 S. 2d St.
 Mound City Paint & Color Co., 1531 N. 11th St.
 National Ammonia Co., The, 3600 N. Broadway.
 Nevins Chemical Works
 Nulsen, Klein & Krausse Mfg. Co., Foot Sidney St.
 Pierce Oil Corporation, Olive and Broadway
 Potosi Lead Barytes & Mercantile Co., 721 Locust St.
 Provident Chemical Works, 8011 Idaho Ave.
 Reardon Glue Mfg Co.
 *Salzgeber, George H., 109 St. George St.
 Washington Land & Mixing Co., 307 Washington St.
 Whitelaw Bros. Chemical Co.

Mont., Helena

Perry & Co., C. T.

Neb., Alliance

Potash Products Co.

Neb., Antioch

* American Potash Co.
 Nebraska Potash Works Co.

Neb., Franklin

Hevner, C. W.

Neb., Hoffman

Potash Product Corporation.

Neb., Lakeside

Hord Alkali Product Co.

Neb., Omaha

American Potash Co.
 Cudahy Packing Co.
 Standard Chemical Mfg. Co., 1312 Harvey St.
 Standard Chemical Mfg. Co.
 Nebraska Blaugas Co., 28th and Boyd Sts.

N. H., Berlin Brown Co.

N. J., Bayonne

Nucoa Butter Co.
 Standard Chemical Co, W. 5th St.

N. J., Belleville

Eastwood Chemical Co.
 Rare Metal Products Co., Cortland St

N. J., Bloomfield

Condensite Co. of America

N. J., Bound Brook

King Chemical Co.

Peerless Color Co.

N. J., Bridgeton

Crystal Sand Co

N. J., Camden

Hollingshead Co., R. M.
 MacAndrews & Forbes Co., 3d St. and Jefferson Ave

Mechling Bros. Mfg. Co.

Taylor, White Extracting Co., Cooper River and Pine St.

N. J., Carlstadt (Beger County)

Franco-American Chemical Works, Inc.

N. J., Chrome

U. S. Metals Refining Co.

N. J., Edgewater

Spencer Kellogg & Sons, Inc.

N. J., Elizabeth

Bayway Chemical Co.

Gilechrist Co., Robt.

Moore Bros. Co.

N. J., Haledon

Macky Wood Aniline Co., Inc.

N. J., Harrison

National Oil Products Co.

N. J., Jersey City

Colgate & Co.
 Davey Sons, W. O.
 Dixon Crucible Co., Joseph
 Eagle Printing Ink Co.
 Globe Chemical Co., 168 Broadway
 Hinton Chemical Co.
 Holbrook Mfg. Co.
 Import Chemical Co., 162 First St.
 Interstate Chemical Co.
 12 Bay View Ave.

Lamar Chemical Co., 44-56 Lewis Ave.
 Natural Products Refining Co.

902-910 Garfield Ave.
 Onyx Oil & Chemical Co.

Reed & Carnwick, 42 Germania Ave.

N. J., Jersey City—cont.

Seydel Mfg. Co., Forrest and Holliday
Sts.
Sizings Specialty Co.,
Williams & Sons, E. A.
N. J., Lincoln
Atlas Mineral Products Co., The
N. J., Manville
Johns-Manville Co.,
N. J., Matawan
Chrome Color Works
Munning Loeb Co.
N. J., Maurer
American Smelting & Refining Co.
N. J., Maywood
Citro Chemical Products Co.
Shaefer Alkaloid Works
N. J., McClellan
Natural Carbonic Gas Co.
N. J., Metuchen
Acme Dyestuff & Chemical Co., Dur-
ham Ave.
N. J., Newark
American Oil & Supply Co., 52 Lafay-
ette Ave.
American Platinum Works, 231 New
Jersey Railroad Ave.
American Synthetic Dyes, Inc.
American Ultramarine & Globe Ani-
line Works, Hamburg Pl.
Baker & Co., Inc., Murray and Austin
Sts.
Brunswick Chemical Co.
Camden Coke Co., Broad and Bank
Sts.
Cawley, Clark & Co.
Central Chemical Co.
Central Dyestuff & Chemical Co.,
Plum Pt. Lane
Columbus Crystal Co.
Haack & Co., 800 Broad St.
Hanovia Chemical & Mfg. Co., Chest-
nut St. and N. J. Railroad Ave.
Hanson & Van Winkle Co., 269 Oliver
St.
Hoff, Johann, 42 Jaliff St.
International Oxygen Co., 796 Frehug-
huysen Ave.
Jaenecke-Ault Co., Ave. B and Wright
St.
Keystone Dyestuff & Chemical Co., 671
Broad St.
Listers Agricultural Chemical Works
Martin Dennis Co.
Murphy Varnish Co., Chestnut and
McWhorter Sts.
National Carbonic Acid Co.
National Carbonic Gas Co.
Rubber & Celluloid Products Co., 65
Ferry St.
Seaboard Chemical Co.
Sherwin, Williams Co., Lister and
Brown Sts.

Stewart & Co., C. H.

Verona Chemical Co.
N. J., New Brunswick
Antimony & Compound Co. of
America, P. O. Box 293
Johnson & Johnson
Squibb & Cox, E. R.
United States Nickel Co.
N. J., Old Bridge
Bloomfield Mills Co.
N. J., Passaic
American Color Mfg. Co., Gregory
Ave. and River Rd.
*Wolf, Jacques & Co.
N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.
N. J., Pennington
Westover Chemical Co.
N. J., Perth Amboy
Didier-March Co.
General Supply Co., Market St. and
Bertrand Ave.
May Chemical Co., F. L.
National Synthetic Co.
Raritan Copper Works
N. J., Phillipsburg
Baker Chemical Co., J. T.
Ingersoll-Rand Co.
N. J., Plainfield
Brown-Ferrari Co.
N. J., Ridgefield Park
British American Chemical Co., Inc.
N. J., Searcen
Vulcan Detinning Co.
N. J., Stewartville
Edison Portland Cement Co.
N. J., Trenton
Engle, Robert H.
Eureka Flint & Spar Co.
Golding Sons & Co., S.
Kutzenbach & Bullock Co.
Luzerne Rubber Co.
Stokes Rubber Co., Jos.
Universal Fiber Co.
Utah Potash Co., The
N. J., Wallington
Anderson Chemical Co.
N. J., West Hoboken
Palisade Mfg. Co.
N. J., West Orange
Lippincott Chemical Co.
Nev., Reno
Neo Mfg. Co., P. O. Box 672
N. Y., Albany
Albany Chemical Co.
Mendelson Corporation
Wander & Sons' Chemical Co., S., 135
Church St.
N. Y., Asbury
Asbury Graphite Mills
N. Y., Batavia
Genesee Chemical Co.

N. Y., Binghamton

Anso Co.
Binghamton Oil Refining Co.
Chenango Chemical Co.

N. Y., Brooklyn

Bristo Myers Co., 281 Greene Ave.
Burns Supply Co., E. Reed
Commonwealth Color & Chemical Co.,
Butler St.
Crescent Chemical Mfg. Co., Van
Brunt and Beard Sts
Cresol Chemical Co., 10 Van Buren St.
Davis Oil Co., 95 9th St.
Fraser Tablet Co., 453 19th St.
General Carbonic Co., 444 Van Brunt
St.

Giuseppe Ferlazzo Co.
Higgins & Co. Chas. M., 271 9th St.
Highfield, John W., 248-252 N. 10th St.
Hoagland Laboratories, Pacific and
Henry Sts.
Hoffman & Kropff Chemical Co.,
Meeker and Porter Sts.
Huber Brewing Co., Otto, 1 Bushwick
Pl.

Iridescent Dyestuff & Chemical Co.,
247 Bush St.

Knappman & Co., William, Grand and
Metropolitan Aves.

Marx & Rawolle, Inc., 9 Van Brunt St
Masury & Son, J. W., 50 Jay St.

*Miner-Edgar Co., 52 Warren St.

Moller & Schumann Co., Macoy and
Flushing Ave.

Moore & Co., Benj., 231 Front St.

Robinson Bros., Montrose and Seneca
Aves.

Sternau & Co., S., 160 John St.

*Wiarda & Co., John C., 273 Green St.

Williamsburg Chemical Co., Inc., 230
Morgan Ave.

Zobel Color Works, Inc., 95-127
Ninth St.

N. Y., Buffalo

Buffalo Fertilizer Co., 62 Pearl St.
Buffalo Fertilizer Works, Marine Natl.
Bank Bldg.

Buffalo Foundry & Machine Co., 43
Winchester Ave.

Buffalo Gas Co.

Buffalo Potash & Cement Corporation,
Buffalo Union Furnace Co.

Cataract Refining & Mfg. Co.

Century Mfg. Co., 272 W. Genesee St.

Century Varnish Co., 272 W. Genesee
St.

Cling-Surface Co.

Contact Process Co., P. O. Drawer
98.

Dold Packing Co., Jacob, 745 William
St

Eastern Oil Co., Fidelity Bldg.

Empire Drug Co., 86 Seneca St.

Hayman & Co., M. E., Ferry and N. Y.
Central Railroad

Hoefner & Sons, A., 160 Van Rens-
selaer St.

Kellogg & McDougall

Kellogg Products Co.

Lackawanna Steel Co.

Larkin Co.

Longman & Martinez, 207 Pearl St.

Mann Bros. Co., 332 Ohio Ave.

Oneida Lime Co., Ltd., Peoples Bank
Bldg.

Pratt & Lambert, Inc., 75-97 Tona-
wanda St.

Schoellkopf Aniline & Chemical Works,
Inc.

Slade Co., Chas. F., 36-38 Washington
St.

Spencer, Kellogg & Sons, Inc.

Wolff Hide Co., 32 Lloyd St.

Wood Products Co.

N. Y., Chauncey (Westchester Co.)

Stauffer Chemical Co.

N. Y., Cook's Falls

Beaverkill Dye Works

N. Y., Corning

Corning Glass Works

N. Y., Cortland

Ekenberg Co., The

N. Y., Elmira

Thatcher Mfg. Co.

N. Y., Genoa

Empire Coke Co

N. Y., Glens Falls

Ames Chemical Works, 21 Sherman
Ave

Imperial Color Works, Inc.

Imperial Dyewood Co.

N. Y., Gouverneur

Ontario Tale Co.

N. Y., Hastings-on-Hudson

Zinsser & Co

N. Y., Hobart

Sheffield By-Product Co

N. Y., Jones Point

Kaolin Products Co.

N. Y., Kingston

Nitrated Chemicals Co.

Nitro Powder Co.

N. Y., Lackawanna

Lackawanna Steel Co.

N. Y., Leroy

Empire Powder Corporation

Genesee Pure Food Co.

N. Y., Little Falls

Burrell & Co., D. H.

Hansen's Laboratory, Inc., Chr.

N. Y., Lockport

Electric Smelting & Aluminum Co.

N. Y., Long Island City

American Druggists Syndicate

Horn Holland Co., Horn Bldg.

Oakes Mfg. Co.

N. Y., Long Island City—cont.

Smith & Co., Edw.
 United States Dye Extracts Co., Inc.
N. Y., Mechanicsville
 Werner Extract Co.
N. Y., Methol
 Leighton Co., Arthur
N. Y., Monticello
 Mont Color & Chemical Co.
 Synfleur Scientific Laboratories
N. Y., Newark
 Stuart & Co., C. H.
N. Y., New Lebanon
 Tilden Chemical Co.
N. Y., New York City
 Ackerman Co., H. R., 65 Fulton St.
 Acme Diamond Tool Co., 56 Liberty St.
 Adler Color & Chemical Works, 100 William St.
 Aetna Chemical Co., Inc., 120 Broadway
 Air Reduction Sales Co., Inc., 120 Broadway
 Albany Lubricating Co., 708-710 Washington St.
 Alberene Stone Co., 223 E. 23d St.
 Alcohol Utilities Co., 40 Exchange Pl.
 *Alexander & Co., Inc., G. S., 61 Broadway
 *Allied Chemical Exchange, Inc., 95-97 Liberty St.
 Alpha Chemical Works, Inc., Woolworth Bldg.
 Amalgamated Dyestuff & Chemical Works, Inc., 75 Hudson St.
 American Agricultural Chemical Co., 2 Rector St.
 American Aniline Products, Inc., 15 E. 12th St.
 American Carbonate Co., 430 E. 19th St.
 American Coal Products Co., 17 Battery Pl.
 American Color Mfg. Co., 98 Park Pl.
 American Condiments Co., 44 Vesey St.
 American Cotton Oil Co., 65 Broadway
 American Cyanamid Co., 511 5th Ave.
 *American Distributing Co., 750 Washington St.
 American Dyewood Co., 80 Maiden Lane.
 American Edible Oils Co., 171 Duane St.
 American Hard Rubber Co., 9 Mercer St.
 American Linseed Co., Woolworth Bldg.
 American Maize Products Co., 135 William St.

American Metal Co., Inc., 61 Broadway
 American Smelting & Refining Co., 120 Broadway
 American Steel Co., 61 Broadway
 American Synthetic Dyes Co., Inc., 61 Broad St.
 *American Trading Co., 25 Broad St.
 Anderson & Co., P. E., 99 John St.
 Androvette & Townsend, 235 Water St.
 Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
 Ansbacher Insecticide Co., Inc.
 Apex Chemical Co., Inc., 63 Park Row
 Arabol Mfg. Co., 100 William St.
 Archibald & Lewis Co., 124 Front St.
 Argentine Quebracho Co., 17 Battery Pl.
 Arlington Co., The, 725-727 Broadway
 Arnhold, Karberg & Co., 21 State St.
 Arnold, Hoffman & Co. Inc., 61 Broadway
 Arnold & Zeiss, 277 Broadway
 Asphalt Construction Co., 208 Broadway
 *Associated Producers Co., 11 Broadway
 Atlantic Turpentine Co., 175 Front St.
 Atlantic White Lead & Linseed Oil Co., 111 Broadway
 Babbitt, B. T., 11 Broadway
 *Baehmeier & Co., Inc., 438 W. 37th St.
 Baeder, Adamson & Co., 67 Beekman St.
 *Baker & Bro., H. J., 81 Fulton St.
 Baker & Co., 30 Church St.
 Balfour, Williamson Co., 43 Exchange Pl.
 Baltic Chemical Co., 183 Duane St.
 Barrett Co., 17 Battery Place.
 Battelle & Renwick, 80 Maiden Lane
 Bauer & Black, 104 E. 25th St.
 Bauer Chemical Co., Inc., The, 30 Irving Pl.
 Bauer, Philip Co., 68 Broad St.
 Bayer Co., The, 117 Hudson St.
 *Beer Sondheim & Co., Inc., 61 Broadway
 Beggs & Co., E. J., 92 William St.
 *Behrend, F., 54 Front St.
 Belden & Co., A. G., 145 Maiden Lane
 Benham & Noyes, 10 Broadway
 Benzo Chemical Co., 39 Cortlandt St.
 Berlin Aniline Works, 213 Water St.
 Berry Bros., 262 Pearl St.
 *Bichels & Techow, 98 Maiden Lane, New York City
 Bielenberg Co., Inc., A., 67-69 Front St.
 Binney & Smith Co., 81 Fulton St.
 *Bischoff & Co., C., Inc., 451 Washington St.

N. Y., New York City—cont.

- Blanchard Co., J. A., 30 Church St.
 Bloch Chemical Co., 67 Fifth Ave.
 Bon Ami Co., 17 Battery Pl.
 Borne-Scrymser Co., 80 South St.
 Bowker Chemical Co., 60 Trinity Pl.
 *Boyer Oil Co., Inc., 29 Broadway
 Brandes Chemical Co., 8th Ave and 34th St.
 Brandes Co., The, 8th Ave. and 34th St.
 Brassord Co., Inc.
 Bredt & Co., F., 240 Water St.
 Britt, Loeffler & Weil, 255 Canal St.
 Bromund Co., E. A., 356 W. Broadway
 Brunn & Co., A. W., Produce Exchange Annex
 Burroughs & Co., James S., 56 Pine St.
 Butler Chemical Co., 25 Beaver St.
 Bush & Co., Inc., W. J., 100 William St.
 *Bush, Beach & Gent, Inc., 80 Maiden Lane
 Butterworth-Judson Corporation, 61 Broadway
 Calman & Co., Emil, 100 William St.
 Calco Chemical Co., Woolworth Bldg
 Camden Chemical Co., 42 Broadway
 *Campbell, C. W., 3 Cliff St.
 *Canada Carbide Sales Co., Inc., 30 Church St.
 Campbell & Co., John, 75 Hudson St.
 Carbondale Calcium Co., 50 Church St.
 Casella Color Co., 182 N. Front St.
 Casey Co., John A., 144 Maiden Lane
 Celite Products Co., 11 Broadway
 Celluloid Co., 30 Washington Place
 Celluloid Zapon Co., 200 Fifth Ave.
 *Century Colors Corporation, 182 Front St.
 *Chacon Trading Co., 82-92 Beaver St.
 Chaskel Chemical Works, 265 W. Broadway
 Chemical Co. of America, Inc., 176 Front St.
 *Chemical Importing & Mfg. Co., 90 West St.
 Chemical Mfg. Co., 48 Gold St.
 Chipman Chemical Engineering Co., 95 Liberty St.
 Chiris Co., Antoine, 20 Platt St.
 Chromos Chemical Co., Inc., Aeolian Hall
 *Chrystal, Chas. B., 11 Cliff St.
 Church & Dwight Co., 27 Cedar St.
 Clare Mfg. Co., 8th Ave. and 34th St.
 Clinchfield Products Co., 120 Broadway
 Coe-Mortimer Co., 51 Chambers St.
 Coignet Chemical Products Co., Inc., 17 State St.
 Columbia Chemical Works, 11 Broadway
 *Columbia Naval Stores Co., 17 Battery Place.
 *Cone, Fredk. H., 176 Front St.
 Consolidated Color & Chemical Co., 122 Hudson St.
 Consolidated Dental Mfg. Co., 130 Washington Pl.
 *Consumers Chemical Corporation, 24 Broad St.
 Cook Oil Co., N. B., 118 Front St.
 Cook's Sons, Adam, 708 Washington Ave.
 Cooper & Co., Chas., 194 Worth St.
 Cooper & Cooper, 309 Broadway
 Corn Products Refining Co., 17 Battery Pl.
 Corrizo Extract Co., 211-215 W. 20th St.
 Cosmic Aniline Works, Inc., 8 W. Broadway
 *Coulston & Co., J. W., 80 Maiden Lane
 Croeniger & Co., 99 Wall St.
 Croton Chemical Co., 14 Cedar St.
 *Dana & Co., 111 Broadway
 Davids Co., Thaddeus, 95 Vandam St.
 DeBrook Co., Inc., 135 William St.
 Delbrook Co., 135 William St.
 *De Lisser & Co., 457 W. 26th St.
 *DeRonde & Co., Abram, 228 Front St.
 DeVoe, F. W. & C. T. Reynolds Co., Fulton and Williams Sts.
 Diamond Drill Carbon Co., 53 63 Park Row
 Diamond Gelatine Co., 127 Water St.
 Dicks, David Co., Inc., 302 Broadway
 *Dicks, David & Bradfoot, Inc., 302 Broadway
 Dickerson, Van Dusen & Co., 32 Cliff St.
 Dodge & Olcott Co., 87 Fulton St.
 *Doggett, Stanley, John and Cliff Sts.
 *Doherr, Grimm & Co., 87 Gold St.
 *Dori & Co., F., Park Row Bldg.
 *Downes & Co., Inc., 102 Fulton St.
 Drakenfeld & Co., B. F., 50 Murray St.
 *Drug & Dyestuff Corporation, 120 Broadway
 Duche & Sons, T. M., 554 Broome St.
 *Dunn & Kruse, 53 Park Row
 Dupont Chemical Works, 120 Broadway
 Durex Chemical Co., 320 Fifth Ave.
 Durkee & Co., E. R., 534 Washington St.
 *Dye Products & Chemical Co., Inc., 200 Fifth Ave.
 Eagle Color & Chemical Co., 4 Cedar St.
 *Earle, E. P., 165 Broadway

N. Y., New York City—cont.

*Echavarria & Co., 8 Bridge St.

*Edgertyn Aniline Corp., 118 William St., New York City

Edison International Corporation, 165 Broadway

Egyptian Lacquer Mfg. Co., 152 Front St.

Eimer & Amend, Third Ave., 18th to 19th Sts.

Eissing Chemical Co., 225 Fifth Ave.

*Elbert & Co., Produce Exchange

Electro Bleaching Gas Co., 18 E. 41st St.

Electro Metallurgical Co., 42d St. Bldg.

Empire Laboratory Supply Co., Inc., 218 E. 37th St.

Erkenbrach Co., Geo A., 115 Maiden Lane

*Ernken Chemical Co., 175 South St.

European Color & Chemical Co., 154 Nassau St.

*Fairbanks, Morse & Co., 30 Church St.

Fairchild Bros. & Foster, 74 Laight St.

Fann & McJunkin, 50 E. 41st St.

Farbwerke-Hoechst Co., 122 Hudson St.

Farrell, William J., 115 Maiden Lane

*Farquhar, H. D., 230 W. 17th St.

Federal Dyestuff & Chemical Co., 2 Rector St.

Fenchtwanger & Co., Inc., L., 54 Fulton St.

Fleischmann Co., 699 Washington St.

Florsynth Laboratories, Inc., 231 Pearl St.

Foamite Fire Extinguisher Co., 200 Fifth Ave.

*Fougera & Co., E., 90 Beekman St.

Franco-American Chemical Co., Inc., 8 Gold St.

*Franco-Swiss Colours Co., 61 Broadway

*Freeman & Co., R. B., 96 Wall St.

Freeport Sulphur Co., 61 Broadway

*Fries & Fries, 121 W. 3rd St.

*Fritzsche Bros., 82 Beekman St.

*Fuerst Bros. & Co., 2 Stone St.

*Fuller & Co., Ralph L., 2 Rector St.

*Gabriel & Schall, 205 Pearl St.

*Geisenheimer & Co., 134 Cedar St.

General Bakelite Co., 2 Rector St.

General Chemical Co., 25 Broad St.

*General Naval Stores Co., 90 West St.

General Rubber Co., Broadway and 58th St.

Georgia Pine Turpentine Co. of New York, 160 Perry St.

Gillespie & Sons, L. C., 6 Fletcher St.

*Gough Co., Wallace L., 10 Bridge St.

*Gould Commercial Co., 22 Whitehall St.

*Gowing & Co., Inc., D. H., 47 W. 34th St.

*Grace & Co., W. R., 1 Hanover Sq.

*Graham, Hinkley & Co., 135 Front St.

Gray & Co., Wm. S., S. Maiden Lane

Greiff & Co., Inc., R. W., 80 Maiden Lane

Griffiths Co., Inc., K. F., 81 Fulton St.

*Grosche & Co., Bruno, 15 Jones Lane

*Gross & Co., Geo. V., 30 Old Slip St.

*Guiterman, Rosenfeld & Co., 35 S. William St.

Gutta Percha & Rubber Mfg. Co., 127 Duane St.

*Haberman, Joseph, 526 11th Ave.

*Hagemeyer & Brunn, Produce Exchange

*Halle-Perris Trading Corporation, 24 State St.

*Hammill & Gillespie, 240 Front St.

Hanover Drug Co., 30 Cliff St.

*Hardy, Charles, 50 Church St.

*Haring, Ellsworth, 114-118 Liberty St.

*Harris & Co., A. W., 400 Greenwich St.

Harshaw, Fuller & Goodwin Co., 100 William St.

*Harvey & Outerbridge, 11 Broadway

Heine & Co., 7 Platt St.

Hellenic Chemical & Color Co., Inc., 1 Cedar St.

*Heller, Hirsh & Co., 62 William St.

Heller & Merz Co., 505 Hudson St.

*Hemingway, Inc., Frank I., 82 Beaver St.

Hemingway & Co., Ltd., 1 Broadway

*Hendricks Bros., 49 Cliff St.

*Herman & Herman, Inc., 6 Church St.

Hennick-Voigt Chemical Corporation, 1 Liberty St.

Hewitt & Co., C. B., 48 Beekman St.

Heyden Chemical Works, 135 William St.

*Heymann, W. H., 438 E. 59th St.

*Hill & Sons, Edw., 64 Wall St.

Hillier's Son & Co., R., 100 William St.

Hirsch & Schofield, Inc., 50 Broad St.

*Hirsh & Co., Chas. L., 16 Pearl St.

*Hirsh & Son L., 368 Greenwich St.

Hoffman-La Roche Chemical Works, 440 Washington St.

Holliday-Kemp Co., Inc., 90 William St.

Holliday, Read & Sons, Ltd., 160 Franklin St.

Holz, Herman A., 1 Madison Ave.

Hooker Electrochemical Co., 40 Wall St.

*Hopkins & Co., J. L., 100 William St.

*Horner, James B., 3 Platt St.

N. Y., New York City—cont.

- *Huber, J. M., 65 W. Houston St.
- *Huisking, Inc., Chas., 5 Platt St.
- Hungerford Brass & Copper Co., U. T., 84 Lafayette St.
- *Hutchinson, D. W., 94 John St.
- *Import Chemical Co., 276 Water St.
- *Independent Chemical Co., 122 West St.
- Independent Salt Co., 44 Whitehall St.
- Indian Refining Co., 17 Battery Pl.
- Industrial Chemical Co., 200 Fifth Ave.
- *Innis, Speiden & Co., 46 Cliff St.
- International Agricultural Corporation, 165 Broadway
- International Alcohol Corporation
- International Nickel Co., 43 Exchange Place
- International Pulp Co., 41 Park Row
- International Smokeless Powder & Chemical Co., 140 Cedar St.
- Jaack Co., Louis, 257 Front St.
- Jamaica Dyewood & Chemical Co., 50 Church St.
- *Jardine, Matheson & Co., Ltd., 63 Wall St.
- *Job & Co., W. & S., 68 Broad St.
- *Johns & Co., Inc., 50 Church St.
- Johnson & Johnson, 100 William St.
- Johns-Manville Co., H. W., Madison Ave. and 41st St.
- *Jones Chemical Co., E. F., 51 Jay St.
- *Jordan, William E., 11 Cliff St.
- Kalbfleisch Corporation, 31 Union Sq., W.
- Kalle & Co., 530 Canal St.
- Kasebier-Chatfield Shellac Co., 175 Pearl St.
- Katzenbach & Bullock Co., 100 William St.
- Kelly Graphite Mills, 534 W. 22d St.
- *Kern Commercial Co., 114 Liberty St.
- *Ketchum & Co., 65 Fulton St.
- *Kley, Inc., 39 Cortlandt St.
- Klipstein & Sons Co., A., 644 Greenwich St.
- Knowles, Bradley & Co., 88 Wall St.
- Kohnstamm & Co., H., 87 Park Pl.
- *Kuttruff, Pickhardt & Co., Inc., 128 Duane St.
- *Lamson & Bro., Inc., John L., 80 Maiden Lane
- L. & R. Organic Products Co., Inc., 27 Thames St.
- *Laranburg, Fred L., 100 William St.
- *Larendon, M. W., 82 Wall St.
- *Lascelles & Co., A. S., 10 Bridge St.
- *Lathrop & Co., Inc., H. R., 200 Water St.
- *Lavanburg, Fred, 100 William St.
- *Leaman, W. & A., 14 State St.
- *Leavitt & Co., C. W., 30 Church St.
- Lederle Laboratories, 39 W. 38th St.
- *Leggett & Bro., 301 Pearl St.
- Lehn & Fink, Inc., 120 William St.
- *Lengfelt & Co., F. H., 100 Maiden Lane
- Lenz Apparatus Co.
- Leslie, E. H., 27 William St.
- Lieber & Co., Inc., H., 14 Platt St.
- Linde Air Products Co., 30 E. 42d St.
- L. & R. Organic Products Co., Inc., 27 Thames St.
- Lister Agricultural Chemical Works 2 Rector St.
- *Lockwood, Brackett & Co., 949 Broadway
- *Longman & Martinez, 207 Pearl St.
- *Lueders & Co., Geo., 218 Pearl St.
- *Maas & Waldstein Co., 100 William St.
- Mackay, A. D., 130 Pearl St.
- Madero Bros., Inc., 115 Broadway
- *Magnus, Maybee & Reynard, 257 Pearl St.
- Malt-Diatase Co., 79 Wall St.
- *Manning-Loeb Co., 50 Church St.
- *Mapes Formula & Peruvian Guano Co., 143 Liberty St.
- Marden, Orth & Hastings Corporation, 61 Broadway
- *Marell Chemical Co., The, 25 Beaver St.
- Marks Dye Mfg. Co., Inc., 484 Broadway
- Marx & Rawolle, Inc., 100 William St.
- *Matthews, John, 333 E. 26th St.
- *Maurer, Edw., 80 Maiden Lane
- *McCotter & Co., S. G., 16 Platt St.
- McKesson & Robbins, Inc., 91 Fulton St.
- Merck & Co., 45 Park Pl.
- Mertz & Co., H. A., 122 Hudson St.
- Metal & Thermit Corporation, 120 Broadway
- *Meyer, G. A. & E., 59 Maiden Lane
- *Meyer & Brown, 35 S. William St.
- Middlesex Aniline Co., Inc., 149 Broadway
- Miller, J. Augustus, 233 Broadway
- Milligan & Higgins Glue Co., 17 State St.
- *Mitsui & Co., 25 Madison Ave.
- Monmouth Chemical Co., 106 Wall St.
- Monx Color & Chemical Co., 90 Wall St.
- Monsanto Chemical Works,
- Morana Compagnie, 184 Fifth Ave.
- Morgan's Sons, E., 439 West St.
- *Morningstar & Co., C., 233 Broadway
- *Mortimer & Co., 68 Beaver St.
- Mutual Chemical Co., of America, 55 John St.

N. Y., New York City—cont.

Nassau Smelting & Refining Works,
607 W. 29th St.

National Ammonia Co., 30 Platt St.

National Aniline & Chemical Co., Inc.,
21 Burling Slip

National Carbon Co., Inc.

National Color & Chemical Works,
59th St. and 11th Ave.

National Gum & Mica Co., 59th and
11th Ave.

National Lead Co., 111 Broadway

National Milk Co., 11 Pine St.

National Milk Sugar Co.

National Oil Products Co., 220 Broad-
way

National Paint Works, 100 William St.

National Rosin Oil & Size Co., 90 West
St.

National Zinc Co., 61 Broadway

New Jersey Asbestos Co., 1 Water St.

New Jersey Products, Inc., 165 Broad-
way

New Jersey Zinc Co., 160 Front St.

New Process Chemical Co., Inc., 39
Cortlandt St.

New York Color & Chemical Co., 212
Pearl St.

New York Commercial Co., 20 Vesey
St.

*New York Quebracho Co., 80 Maiden
Lane

New York Quinine & Chemical Works,
Ltd., 114 William St.

Niagara Coke Corporation, 6 Church
St.

Nichols Copper Co., 25 Broad St.

*Nitrate Agencies Co., 104 Pearl St.

North Atlantic Metal Corporation, 29
Broadway

Norton Laboratories, 296 Madison Ave.

Nucoa Butter Co., The, 133 Front St.

Oakland Chemical Co., 10 Astor Pl.

*Obalski & Sweeney, 24 Stone St.

Organic Products Corporation, 469
State St.

*Osborn Co., C. J., 132 Nassau St.

*Oxford Tripoli Co., 11 Broadway

Pacific Coast Borax Co., 100 William
St.

*Palo Co., 90-94 Maiden Lane

Parex Mfg. Co., 249 Pearl St.

Pasteur Laboratories, 366 W. 11th St.

*Patterson, Boardman & Knapp, 10
Bridge St.

*Patterson & Co., G. W. S., 133 Front
St.

Peace Dale Phosphate Mining Co., 2
Rector St.

*Peck & Velsor, 9 Gold St.

Pennsylvania & Delaware Oil Co., 90
West St.

Perfenol Products Co., Inc., 39 W.
38th St.

Perolin Co. of America, Woolworth
Bldg.

Perth Amboy Chemical Works, 100
William St.

*Peters, White & Co., 55 John St.

Petroleum Products Co., 51 Front St.

*Pfaltz & Bauer, Inc., 300 Pearl St.

*Pfizer & Co., Chas., 81 Maiden Lane

*Philipp Bros., Inc., 29 Broadway

Phosphate Mining Co., 55 John St.

Eagle-Picher Lead Co., 100 William St.

Platt & Washburn Refining Co., 11
Broadway

Plymouth Organic Laboratories, 65
Ann St.

Port Morris Chemical Works, 141
Locust Ave.

Prairie Pebble Phosphate Co., 165
Broadway

Pratt Co., 50 Church St.

Preservaline Mfg. Co., 854 Loumer St.

Prest-O-Lite Co.

Producers Chemical Corporation, 261
Broadway

Radium, Ltd., U. S. A., 2 W. 45th St.

Radium Luminous Material Corpo-
ration, 55 Liberty St.

Randell & Co., F. L., 197 Pearl St.

*Ransom Co., L. E., 279 Pearl St.

Raritan Copper Works

*Raw Products Co., 121 Front St.

Rector Chemical Co., 2 Rector St.

Reliance Aniline & Chemical Co., 299
Broadway

Rendrock Powder Co., 106 Wall St.

Reynolds & Devoe Co., 103 Fulton St.

*Richmond Products Co., 32 Broad-
way

*Riker, J. L. & D. S., 19 Cedar St.

Robbins Mining Co., A. A., 99 John St.

*Rockhill & Vietor, 22 Cliff St.

Roessler & Hasslacher Chemical Co.,
100 William St.

Roger & Gallet, 25 W. 32d St.

Roger-Pyatt Shellac Co., 81 Water St.

*Rosin & Turpentine Export Co., 26
Cortlandt St.

Royal Chemical Co., 538 W. 53d St.

*Rubber Trading Co., 38 Murray St.

St. Lawrence Talc Co., Inc., 7 E. 42d
St.

*Saklat & Co., A. H., 87 Front St.

*Salomon & Bro., L. A., 216 Pearl St.

Saxe Chemical Co., 99 Nassau St.

*Schell Chemical Co., Inc., 56 Pine St.

Schell William H., 159 Maiden Lane

*Schering & Glatz, 150 Maiden Lane

*Schieffelin & Co., 170 William St.

Schnapper Chemical Co., 192 N. Clark
St.

*Schwenker, Inc., W. M., 340 E. 92d St.

N. Y., New York City—cont.

- Seabury & Johnson, Inc., 59 Maiden Lane
 *Sealy, Thomas, 142 Front St.
 Segal & Co., Inc., George H., 95 William St.
 *Seligmann, Arthur, 165 Broadway
 *Sembrada & Co., J. S., 129 Front St.
 *Sergeant & Co., E. M., 95 Madison Ave.
 Sharpe & Dohme, 41 John St.
 *Simeon & Elting, 93 Nassau St.
 Sinclair & Valentine Co., 611 W. 129th St.
 *Sloan & Russell, Inc., 132 Nassau St.
 *Smith & Co., J. Lee, 23 Jacob St.
 *Soltau & Co., Robert, 75 John St.
 Sonneborn Sons, L., 262 Pearl St.
 Southern Cotton Oil Co., 120 Broadway
 Southern Cotton Oil Co., 24 Broad St.
 Southern Oil & Chemical Co., 15 Park Row
 Squibb & Sons, E. R., 80 Beekman St.
 *Stallman Co., 229 Pearl St.
 Stamford Mfg. Co., 88 Wall St.
 Standard Aniline Co., 366 Fifth Ave.
 Standard Color Works, 55 Liberty St.
 Standard Distilling & Distributing Co., 27 William St.
 Standard Oil Co., 26 Broadway
 Standard Wax & Import Co., 95 William St.
 *Stanley, Jordan & Co., 116 Broad St.
 Star Extract Works, S.W. Broadway
 Stein, Hall & Co., 66 Broadway
 *Stillwell Co., A. A., 28 Cliff St.
 *Strahl & Pitsch, 141 Front St.
 *Strohmeyer & Arpe Co., 139 Franklin St.
 *Sundheimer, Henry, 35 Nassau St.
 *Swan & Co., A. G., 135 Front St.
 Swan & Co., Alden S., 133 Front St.
 Swan & Finch Co., 151 Maiden Lane
 Suzuki & Co., S., 220 Broadway
 Synthetic Chemical Works, 2 Rector St.
 Synthetic Color Co., 2403 5 Singer Bldg.
 *Taft & Co., J. H., 100 William St.
 *Taintor Mfg. Co., H. F., 2 Rector St.
 *Takamine Commercial Corporation, 120 Broadway
 Takamine Laboratory, Inc.
 Tartar Chemical Co., 135 William St.
 *Taylor Commission Co., Geo. F., 80 Pine St.
 *Tennant Sons & Co., C., 100 William St.
 Texas Co., 17 Battery Pl.
 Texas Gulf Sulphur Co., 50 E. 42d St.
 Thurston & Braidick, 130 William St.
 *Tieman & Co., M. F., 100 William St.
 Tidewater Oil Co., 11 Broadway,
 Toch Bros., 320 5th Ave.
 Transatlantic Chemical Corporation, 192 Broadway
 Uchida Trading Co., Ltd., The, 120 Broadway
 *Ulrich & Co., Paul, 11 Cliff St.
 Ultramarine Co., 38 Park Row
 Ungerer & Co., 273 Pearl St.
 Union Carbide Co., 42d St. Bldg.
 Union Seed & Fertilizer Co., 65 Broadway
 Union Sulphur Co., 17 Battery Pl.
 Union Talc Co., 132 Nassau St.
 United Aniline & Chemical Works, Inc., 377 Broadway
 United Dyewood Corporation, 80 Maiden Lane
 United Lead Co., 111 Broadway
 U. S. Color & Chemical Co., 93 Broad St.
 United Naval Stores Co., 130 Pearl St.
 U. S. Alloys Corporation, 30 E. 42d St.
 U. S. Asphalt Refining Co., 90 West St.
 U. S. Industrial Alcohol Co., 27 William St.
 United States Industrial Chemical Co., 27 William St.
 U. S. Metal Refining Co., 42 Broadway
 U. S. Rubber Co., 1790 Broadway
 United States Smelting, Refining & Mining Co., Inc., 120 Broadway
 U. S. Talc Co., 11 Park Row
 U. S. Varnish Co., 41 Park Row
 United Zinc Smelting Corporation, 99 John St.
 Vacuum Oil Co., 61 Broadway
 Valentine & Co., 456 4th Ave.
 Valvoline Oil Co., Inc., 11 Broadway
 *Van Brunt & Co., J. A., 114 John St.
 *Van Dyk, L. A., 90 W. Broadway
 Virginia Electrolytic Co., 99 Cedar St.
 Vulcanized Rubber Co., 251 4th Ave.
 *Waddell & Co., R. J., 52 Beekman St.
 Wak Chung Mining & Smelting Co., Woolworth Bldg.
 *Waldo, E. M. & F., 11 Broadway
 Warner Chemical Co., 52 Vanderbilt Ave.
 *Warner-Quinlan Asphalt Co.
 Warren Chemical & Mfg. Co., 17 Battery Place
 Webb & Son, James A., 50 Stone St.
 *Welch, Holme & Clark Co., 381 West St.
 *Wessel, Duval & Co., 25 Broadway
 West Disinfecting Co., 411 Fifth Ave.
 West Indies Chemical Works, 80 Maiden Lane
 Wetterwald & Pfister Co., 34 W. 33d St.
 *Weymouth, Ralph W., 111 Broadway
 White Star Co., 6 Cliff St.

- N. Y., New York City—cont.*
 White Tar Co., 6 Cliff St.
 White Co., T. & S. C., 100 William St.
 *Whittaker Co., W. H., 252 Front St.
 *Wilkes-Martin-Wilkes Co., 135 William St.
 *Williams & Son, Inc., John T.; 100 Broadway
 Williams Mfg. Co., 1947 1st Ave.
 Williamson & Co., 120 Broadway
 Williamson & Co., D. D., 86 Fulton St.
 *Wilson & Co., 45th and 1st Ave.
 *Wing & Evans, 22 William St.
 *Wiseman & Co., Charles, 105 Hudson St.
 Wolff, Harry W., 50 E. 41st St.
 *Wood, Inc., J. Early, 21 Platt St.
 Woolf Laboratories
 Wright Chemical Corporation, 38 Park Row
 *Zinkheisen & Co., 135 William St.
 Zinsser & Co., Wm., 195 William St.
 Zobel Color Works, Inc., 95-127 Ninth St.
 Zobel Co., Inc., Ernest, 38 Water St.
- N. Y., Niagara Falls*
 Acheson Graphite Co.
 American Magnesium Corporation
 Carborundum Co.
 Castner Electrolytic Alkali Co.
 Electro Metallurgical Co.
 Hooker Electrochemical Co.
 National Electrolytic Co., Hydraulic Canal Basin
 Niagara Alkali Co., Buffalo Ave and Union St.
 Niagara Smelting Corporation
 Titanium, Alloy Mfg. Co.
 Titanuim Pigment Co., Inc.
- N. Y., Norwich*
 Norwich Pharmacal Co.
- N. Y., North Tonawanda*
 Riverside Chemical Co., 1194-96 Oliver St.
 Synthetic Products Co.
- N. Y., Olean*
 Lackawanna Chemical Co.
- N. Y., Ossining*
 Ossining Chemical Works
- N. Y., Owego*
 American Casein Co.
 National Casein Co.
- N. Y., Pearl River*
 Lederle Antitoxin Laboratory
- N. Y., Peckskill*
 *Fleischmann Mfg. Co.
 Mackellar's Sons Co., R.
- N. Y., Penn Yan*
 Taylor Chemical Co.
- N. Y., Perth Amboy*
 National Synthetic Co.
- N. Y., Port Chester*
 Mallory & Co., Inc., P. R.
- N. Y., Rochester*
 American Photo. Chemical Co., Inc.
 26 Forbes St.
 Bausch & Lomb Optical Co.
 Eastman Kodak Co.
 General Filtration Co., Inc., Cutler Bldg.
 Shinola Co., 8-28 Jay St.
 Smith Co., J. Hungerford
 Vacuum Oil Co.
- N. Y., Rosebank*
 Austen Mfg. Co., Perry
 Dreyfus Co., L. A.
 Siegle Co., G.
- N. Y., Saratoga Springs*
 Harvey & Co., G. F.
- N. Y., Schenectady*
 Mohawk Gas Co.
 Organic Products Corporation
- N. Y., Solvay*
 Solvay Process Co.
- N. Y., Syracuse*
 *Gowing & Co., D. H., 242 W. Jefferson St.
 Porter & Clancy, 200 James St.
 Rosebrugh Chemical Corporation,
 1618 N. Salina St.
 Semet-Solvay Co.
 Solvay Process Co.
 Will & Baumer Co.
- N. Y., Troy*
 Eddy's Titus, Son
 Thompson Sons & Co., John L.
- N. Y., Waterloo*
 Industrial Distilling Co.
- N. Y., Wappingers Falls*
 Standard Aniline Products, Inc.
- N. Y., Yonkers*
 Palisade Mfg. Co.
- N. C., Asheville*
 Betts & Co., Anson G.
 Georgia Tale Co.
- N. C., Bessemer City*
 Lawton, Chas. L.
- N. C., Dillsboro*
 Harris Clay Co.
- N. C., Raleigh*
 Caraleigh Phosphate & Fertilizer Co.
- N. C., Stackhouse*
 Carolina Barytes Co.
 Gahagan, B. W.
 Stackhouse, A. & C.
- N. C., Wilmington*
 Acme Mfg. Co.
 National Wood Products Co.
 Navassa Guano Co. of Wilmington
 Sprittine Chemical Co.
- Ohio, Akron*
 Akron Varnish Co.
 Buckeye Chemical Co.
 Faultless Rubber Co.
 Goodyear Tire & Rubber Co.

Ohio, Amherst

Briggs Chemical Works Co.

Ohio, Barberton

Columbia Chemical Co.

Ohio, Bedford

Franklin Oil & Gas Co.

Ohio, Cincinnati

Alexander Co., M. H., 226 E. Front St.

American Chemical Co., 642 Carr St.

American Diamalt Co., 419 Plum St.

Ault & Wiborg

Berghausen Chemical Co., E., 307 E. 2d St.

Buchanan Products Co., C. G., 118 E. Pearl St.

Buckeye Cotton Oil Co.

Burekhardt Co., 525 Eggleston St.

Carey Co., Philip

Chatfield Mfg. Co., 3d and Plum Sts.

Cincinnati Abattoir Co., 3241 Spring Grove Ave.

Cincinnati Extract Works Co., 226 E. Pearl St.

Cincinnati Oil Works Co., 525 Eggleston Ave

Clifton Springs Distilling Co., Station "A"

Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Eddy Chemical Co., 1014 Eliza St.

Elkhorn Chemical Co., Elsinore and Gilbert Aves.

Elkhorn Mining & Mfg. Co., 58 Main St.

Fleischmann Co., 419 Plum St.

Frank Tea & Spice Co., 716 E. 3d St.

Fries & Fries, 1501-13 W. 6th St.

Gates Aniline Products Co.

Globe Chemical Co., 1135 Regent Ave.

Globe Chemical Co., 1205 Regent Ave.

Harkness & Cowing Co., Murray Ave. and Carthage Peak

Jarecki Chemical Co.

Joslin-Schmidt Co., 3223 Spring Grove Ave.

Kalmus Chemical Co., Kalmus Bldg.

Lloyd Bros., Plum and Court Sts.

Moore Oil Co., York and McLean Ave.

Moser Co., Chas., 215 E. 9th St.

Prince Co., L. M., 108 W. 4th St.

Proctor & Gamble Distributing Co., Gwyne Bldg.

Union Distilling Co., 3d and Race Sts.

Walsh & Co., Jas., Union Trust Bldg.

*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Ohio, Cleveland

American Steel & Wire Co., Western Reserve Bldg.

Atlantic Paint Co., Bessemer Ave. and P. R. R.

Atlantic Refining Co., Garfield Bldg.

Atlas Oil Co., Rose Bldg.

Brooks Oil Co., 3304 E. 87th St., S. E. Canfield Oil Co.

Chemical Supply Co.

Clark Co., F. G., 1099 W. 11th St., N. W.

Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Columbia Graphite Co.

Consumers' Rubber Co., 829 Superior Ave., N. W.

Dover By-Products Coke Co., Leader-News Bldg.

Fleming Chemical Co., The, 1711 Crawford Road

Forest Paint & Varnish Co., 3334 Lakeside Ave.

Glidden Varnish Co., Madison Ave.

Globe Refining Co., Rose Bldg.

Grasselli Chemical Co., Arcade Bldg.

Grasselli Powder Co., Arcade Bldg.

Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.

Lennox Chemical Co., 1201 E. 55th St.

National Carbon Co., Madison & Highland Aves.

National Refining Co., Rose Bldg.

National Smelting Co., 6800 Grant Ave

New England Quartz Co., 150 Nassau St.

Northern Chemical Co., W. 70th, near Detroit Ave., N. W.

Northern Oil Co., Rose Bldg.

Ohio Chemical & Mfg. Co., 1177 Marquette Road

Paragon Refining Co.,

River Furnace Co.

Sherwin-Williams Co., 601 Canal Road

Smith Co., Werner G., Hird and Detroit Sts

Stowe Fuller Co., Rockefeller Bldg.

Toledo Furnace Co., Western Reserve Bldg.

United Furnace Co., Western Reserve Bldg.

Vulcan Refining Co., Williamson Bldg.

Warren Refining & Chemical Co.

Youngstown Sheet & Tube Co.

Ohio, Columbus

Aetna Graphite Co.,

Farmers Fertilizer Co.

Harshaw, Fuller & Goodwin Co.

*Laboratory Supply Co., 236 N. 3d St.

Smith Agricultural Chemical Co.,

Ohio, Dayton

Economy Soap Products Co.

Electro Chemical Co.

Lowe Bros. Co.,

Ohio, Dover

Dover By-Products Coke Co.

Ohio, Findlay

Ohio Oil Co.

- Ohio, Fostoria*
 Sterizol Co., The, 110-112 E. South St.
Ohio, Hamilton
 Hamilton-Otto Coke Co.
Ohio, Jackson
 Globe Iron Co.,
Ohio, Lockland
 Carey Mfg. Co., Philip
Ohio, Marietta
 Marietta Torpedo Co.,
 Northwestern Chemical Co.,
 Obex Co., The
Ohio, Medina
 Root Co., A. I.
Ohio, Mineral City
 Progressive Rubber Co.
Ohio, Newark
 Styron-Beggs Co., The
Ohio, Niles
 National Sand & Stone Co.
Ohio, Pomeroy
 Graclif Chemical Co.
 Pomeroy Salt Association Co.
Ohio, St. Bernard
 Werk Co., The M., Murray Ave.
Ohio, Sandusky
 Hord Color Products Co., The
 Jarecki Chemical Co.
 Kroma Color Co.
 Syn Galenic Chemical Co.
Ohio, Steubenville
 La Belle Iron Works
Ohio, Toledo
 Craig Oil Co.
 Metzger Seed & Oil Co.,
 Paragon Refining Co.
 Sinclair Mfg. Co.
 Sun Co.
 Toledo-Owens Glass Sand Co.,
 Toledo Seed & Oil Co.,
 Toledo Stone & Glass Sand Co.
 Yaryan Naval Stores Co.
Ohio, Warren
 Goheen Mfg. Co., Mam St.
Ohio, Wickliffe
 Clarke Chemical Co., St. Clair St.
Ohio, Youngstown
 Brier Hill Steel Co.
 Republic Iron & Steel Co.
 Youngstown Chemical Co., Sycamore
 St.
 Youngstown Sheet & Tube Co.
Ohio, Zanesville
 Agnew Torpedo Co.
Okla., Bartlesville
 Indian Territory Illuminating Oil Co.
Okla., Chelsea
 Chelsea Refining Co.
Okla., Muskogee
 Muskogee Refining Co.
Okla., Oklahoma City
 Bowers & Co., O. C., 23 Rena Ave.
Okla., Okmulgee
 American Refining Co.
Okla., Sapulpa
 Phoenix Refining Co.
 Sapulpa Refining Co.
Okla., Tulsa
 Cosden & Co., Inc.
 Empire Refineries, Inc., Unity Bldg.
Okla., Vinita
 Milliken Refining Co.
Okla., Wapanucke
 Dale Mfg. Co., James E.
Ore., Portland
 Oregon Wood Distilling Co.
 Portland Gas & Coke Co.
Pa., Allentown
 Allentown Mfg. Co., The
 Pennsylvania Trojan Powder Co.
 Princess Metallic Paint Co.
Pa., Ambler
 Keasbey & Mattison Co.
Pa., Bethlehem
 Bethlehem Steel Co.
Pa., Bradford
 American Acid & Alkali Co.
 American Alkali & Acid Co.
 Emery Mfg. Co.
 Kendall Refining Co.
 Nusbaum Chemical Co.
Pa., Carbondale
 Carbondale Calcium Co.
Pa., Carnegie
 Aetna Chemical Co.
Pa., Chester
 Philadelphia Suburban Gas & Electric
 Co.
Pa., Easton
 Baker & Adamson Chemical Co.
 Papermakers Chemical Co.,
 Williams & Co., C. K.
Pa., East-Smithport
 Norwich Chemical Co.
Pa., Emporium
 Cameron Powder Mfg. Co.
Pa., Erie
 Bayerson Oil Works
 Hammernill Paper Co.
 Watson Co., H. F.
Pa., Fernwood
 Moac Co., Inc.
Pa., Fort Washington
 Columbia Chemical Constructive Co.
Pa., Franklin
 Galena Signal Oil Co.
Pa., Freedom
 Freedom Oil Works
Pa., Grassland, Del., County
 Essential Oil Specialties Co., Inc.
Pa., Great Bend
 Black Horn Leather Co.
Pa., Hanover
 Acme Extract & Chemical Works
 Young & Co., J. S., Park Ave.

- Pa., Johnstown*
Union Chemical & Refining Co.
- Pa., Lancaster*
Lancaster Chemical Co.
- Pa., Latrobe*
Vanadium Alloys Steel Co.
- Pa., Lockhaven*
Stanley Anilin Chemical Works
- Pa., Malvern*
Bishop & Co., [Platinum Works], J.
- Pa., Marcus Hook*
Viscose Co., The
- Pa., Manayunk*
Dye Products Co.
- Pa., Marietta*
Alexander & Co., H. M.
- Pa., Mayburg*
Tionesta Valley Chemical Co.
- Pa., Mt. Union*
Mt. Union Tanning & Extract Co.
- Pa., New Brighton*
Brighton Chemical Co.
Thorkildsen-Mayer Co.
- Pa., Philadelphia*
Adams & Co., Jos. M., Main and Dupont Sts.
Air Reduction Co., Inc., Germantown and Sedgley Aves.
American Graphite Co. of Philadelphia, Land Title Bldg.
American Oxygen Co., Perry Bldg.
*Andreykovicz & Dunk, 58 N. Front St.
Ajax Metal Co., 46 Richmond St.
Atlantic Refining Co., 3144 Passyunk Ave.
Atlantic Turpentine & Refining Co., 600 Pennsylvania Square Bldg.
Barber Asphalt Paving Co., Land Title Bldg.
Barrett & Sons, Wm., 730 S. Broad St.
Baugh & Sons Co., 20 S. Delaware Ave.
Beckton Chemical Co., 3500 Grays Ferry Rd.
Betz & Son, Jno. F., 415 Callowhill St.
Bick & Undy, 49 S. Front St.
Boley Co., C. H., Randolph St. and Erie Ave.
Bower Chemical Mfg. Co., Henry, 29th & Grays Ferry Rd.
Cambria Steel Co., Widener Bldg.
Carbon Dioxide & Magnesia Co., N., 29th and Montgomery Ave.
Clawson Co., 240 Chestnut St.
Cooper & Co., T. G., 47-49 N. 2d St.
Crew-Levick Co., 111 N. Broad St.
Dermatological Research Laboratory
Dill & Collins Co., Richmond and Tioga Sts.
*Dougherty, E., Drexel Bldg.
Fels & Co., 73d St. and Woodland Ave.
*Ferguson Bros., 109 Chestnut St.
- Fleming Chemical Co., 1711 Crasford Rd.
Foote Mineral Co., 107 N. 19th St.
*Fortner Co., L. B., 36-38 Strawberry St.
Franklin Mfg. Co. .
French & Co., Samuel H., 4th and Callowhill Sts.
Fulmer & Apeldorn, 23 S. 9th St.
Graves Co., N. Z., 22 S. 3d St.
Hafleigh & Co., 2813 N. American Ave.
Hagstoz Co., T. B., 709 Sansom St.
Hamilton & Sons, Robt., 709 Tasker St.
Hance Bros. & White, 621 Callowhill St.
Harmer Laboratories Co.
Harrison Works, 35th and Grays Ferry Rd.
Hempstead & Sons, O. G., 41 S. 4th St.
Hoffman-Corr Mfg. Co.
Hollingsworth & Peterson, Lafayette Bldg.
Howell & Co., C. H., 212 Race St.
Hires Co., Chas. E., 6 S. 24th St.
Houghton & Co., E. F., 240 W. Somerset St.
*Jordan, Jr, W. H. & F., 218 N. Delaware Ave.
Kali Mfg. Co., 1408 Front St.
Keller, Robert, 334 N. 3d St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Lavino & Co., E. J., Bullitt Bldg.
Lennig & Co., Chas., 112 S. Front St.
Lewis & Bros. Co., J. T., Lafayette Bldg.
Lucas & Co., John, 322 Race St.
*McIlvaine Bros., 1500 Hamilton St.
Mantua Chemical Co., 3500 Grays Ferry Rd.
Maxwell's Sons, Jno., 30th and Spruce Sts.
Merchant & Evans Co., 517 Arch St.
*Meyer & Sons, J., 480 Bourse Bldg.
Midvale Steel Co., Widener Bldg.
Mulford Co., H. K., 412 S. 13th St.
National Ammonia Co., Van Kirk and Delaware River
Northern Liberties Gas Co.
Ottens Mfg. Co., Henry H., 129 S. Front St.
Paxon Co., J. W., 1022 N. Delaware Ave.
Pecora Paint Co., 4th and Lawrence Sts.
Penn Chemical Works, 1322 Washington Ave.
*Pennsylvania Color & Chemical Mfg. Co., 248 Chestnut St.
Pennsylvania Salt Mfg. Co., Widener Bldg.
Philadelphia Aniline & Extract Co., Bourse Bldg.

Pa., Philadelphia—cont.

Philadelphia Clay Co., 1201 Chestnut St.

Philadelphia Quartz Co., 121 S. 3d St.

Philadelphia Textile Chemical Works, Arnott and P. R. R.

Phillips & Jacobs, 622 Race St.

Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Pure Oil Co., Lafayette Bldg.

Reiner & Co., John W., American and York Sts.

Republic Mining & Mfg. Co., Harrison Bldg.

Robmt & Haas Co., 40 N. Front St

Roversford Foundry & Machine Co., 52 N. 5th St.

Shoemaker & Co., M. L., Ltd, E. Vengango near Delaware Ave.

Shoemaker & Co., Robert, 201 N. 4th St.

Smith & Co., C. K., 123 Arch St.

Smith, Kline & French Co., 431 Arch St.

Taylor Co., N. & G., 300 Chestnut St.

*Thomas Co., Arthur H., W. Washington Sq.

Thomas & Son Co., I. P., Drexel Bldg.

Tomson & Co., P. C., 1124 Girard Ave.

Trotter & Co., Nathan, 36 N. Front St.

Tunnell & Co., F. W., 15 N. 5th St.

Twitchell Co., S., 225 Vine St.

Union Casein Co., 2314 Wood St.

Union Petroleum Co., 135 S. 2d St.

United Gas Improvement Co., Broad and Arch Sts.

Vila Color Co., H. S., 243 S. 2d St.

Wagner, Charles A., 222 N. Water St.

Wahl Mfg. Co., Emil, 3970 Pulaski Ave.

Walker, Stratman & Co., Herrs Island

Warner, Wm. R., 639 N. Broad St.

Watt's Sons, John M., 54 N. 2d St.

Westmoreland Chemical & Color Co., 925 Chestnut St.

Woodward & Dickerson, 14 S. Delaware Ave.

Wrigley Mfg. Co., Wayne above Roberts St.

Wyeth Bro., Inc., J., 11th and Washington Ave.

Pa., Philadelphia, Frankford

National Ammonia Co. of Pa., Delaware Ave. and Vankirk St.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.

American Bauxite Co., Oliver Bldg.

American Reduction Co., Brushton Ave. and P. R. R.

American Vanadium Co., Vanadium Bldg.

American Zinc & Chemical Co.

Armstrong Cork & Insulation Co.

Beck Salt Co., John A., Western and Beaver Aves.

Carnegie Steel Co., Carnegie Bldg.

Columbia Chemical Co., Frick Bldg.

Diamond Alkali Co., First National Bank Bldg

Falk Co. Park Bldg.

Fort Pitt Oil & Paint Co., 3209 Liberty Ave.

Gulf Refining Co., Frick Bldg.

Hamburger Distillery, Ltd., 706 Arrott Bldg.

Hussey & Co., Bessemer Bldg.

Keystone Bronze Co., 39th and Allegheny Valley Railroad

Lawrenceville Bronze Co., 3046 Pennsylvania Ave.

Macbeth-Evans Glass Co., Wabash Bldg.

*Mortland Chemical Co., 602 Fitzsimmons Bldg.

National Oil & Lead Co. of Pa., Commonwealth Bldg.

National Tube Co., Frick Bldg.

Nevin Co., T. H., Island and Preble Ave.

Northern Aluminum Co., Ltd., 2344 Oliver Bldg.

Pearsite Co., Oliver Bldg.

Pennsylvania Smelting Co., First National Bank Bldg.

Pittsburgh-Potosi Lead Co., 5527 Ellsworth Ave.

Pittsburgh Provision & Packing Co., Herrs Island

Pittsburgh White Sand Co., Farmers Bank Bldg.

Radium Chemical Co., Forbes and Meyram Aves.

Republic Chemical Co., Inc., P. O. Box 946

Scaife & Sons, Wm. H., 221 1st Ave.

*Scientific Materials Co., 711-719 Forbes St.

*Snyder's Sons Co., Inc., A. G., 925 S. Canal St., N. S.

Standard Alloys Co., Forbes and Meyran Ave.

Standard Chemical Co., Vanadium Bldg.

Vanadium Metals Co., Vanadium Bldg.

Vitro Mfg. Co., 720 Bessemer Bldg.

Waverly Oil Works Co.,

Wayne Brass Foundry, 4635 Butler St.

Pa., Pittston

Luzerne Chemical Co.

Wyoming Chemical Co.,

Pa., Primos

Primos Chemical Co.

- Pa., Reading*
 Althouse Chemical Co., 500 Pear St.
 Raser & Son, Wm. H.
 Reading Chemical Mfg. Co.
 Wilhelm Co., The A.
- Pa., Scranton*
 American Color Co.
 Ames Color Co.
 International Salt Co. of N. Y.
 Salt Mountain Co.
- Pa., Sellersville*
 Radium Co of America
- Pa., South Bethlehem*
 Bethlehem Steel Co.
- Pa., Stockertown*
 Atlantic Potash Co.
- Pa., Susquehanna*
 Pennsylvania Chemical Co.
 Wayne Chemical Co.
- Pa., Titusville*
 Pennsylvania Paraffine Works
- Pa., Valley Forge*
 Ehret Magnesia Mfg. Co.
- Pa., Warren*
 Pennsylvania Oil Products Refining Co.
 Riverside Acid Works
 Warren Chemical Products Co.
- Pa., White Haven*
 Luzerne Ochre Mfg. Co.
- Pa., Williamsport*
 Columbia Carbon Co
 National Paint Works
- Pa., York*
 Hydrofluoric Mfg. Co.
 York Chemical Works.
- R. I., Phenix*
 Royal Chemical Co.
- R. I., Providence*
 Agawam Chemical Works, 10 Wayboscet St
 American Nitrogen Products Co., Securities Bldg.
 Arnold, Hoffman & Co., Inc., 55 Canal St.
 Bush Co., C. S.
 Davol Rubber Co.
 Everett & Barron Co., Inc., 217 Canal St.
 Harris Oil Co., A. W., 326 S. Water St.
 Industrial Chemical Co., Inc., P. O. Box 490.
 *Lewis, John D., 1209 Turks Head Bldg.
 Mathieson Alkali Co.
 Nitrogen Products Co., 55 Canal St.
 Providence Gas Co.
 Rumford Chemical Works, 231 S. Main St.
 U. S. Gutta Percha Paint Co.
- R. I., Woonsocket*
 Standard Soap Mfg., Co.
- Scotland, Glasgow*
 Barr, Ltd., James C., 27, Blythswood Sq.
 Gemmill & Co., Wm. N., 142 Queen St.
- S. C., Anderson*
 Anderson Phosphate & Oil Co.
- S. C., Charleston*
 Combahee Fertilizer Co.
 Etiwan Fertilizer Co.
 Planters Fertilizer & Phosphate Co.
- S. D., Hill City*
 Black Hills Tungsten Mining & Milling Co.
- Spain, Barcelona*
 Sociedad Anonima Monegal; New York City: Biehels & Techow, 98 Maiden Lane
- Switzerland, Basle*
 Sandoz Chemical Works
- Tenn., Chattanooga*
 Chattanooga Chemical Co., Inc.
 Chattanooga Gas & Coal Products Co., James Bldg.
 Scholze & Bro., E. W.
- Tenn., Columbia*
 International Phosphate Co.
- Tenn., Del Rio*
 Adams, J. N.
- Tenn., Ducktown*
 Ducktown Sulphur, Copper & Iron Co.
- Tenn., Kingsport*
 Clinchfield Portland Cement Corporation
 Union Dye & Chemical Corporation, 81 Fulton St.
- Tenn., Knoxville*
 Southern Extract Co.
- Tenn., Memphis*
 Forest Products Chemical Co.
- Tenn., Nashville*
 Read Phosphate Co.
 Tennessee Chemical Co.
 Tennessee Fertilizer Co.
- Tenn., Sweetwater*
 Doherty, J. F.
 Durex Chemical Works
 Moore, H. J.
- Texas, Freeport*
 Freeport Sulphur Co.
- Texas, Houston*
 Freeport & Mexican Fuel Co. Corporation
 Hill Extract & Flavor Co.
 Houston Packing Co.
 Texas Co.
- Texas, New Willard*
 New Willard Naval Stores Co.
- Texas, Sugarland*
 Sugarland Mfg. Co.
- Utah, Burmester*
 Salt Lake Chemical Co.

- Utah, Marysville*
 Caraleigh Phosphate & Fertilizer Works
Utah, Ogden
 Ogden Wholesale Drug Co.
Utah, Salt Lake City
 Utah Chemical Co.
 Utah Soap Co.
Utah, St. Marysville
 Mineral Products Co.
Utah, Soldier Summit
 Wasatch Ozokerite Co.
Ut., Burlington
 Wells & Richardson Co.
Va., Buena Vista
 Buena Vista Extract Co.
Va., Charlottesville
 Young & Co., H. E.
Va., Clifton Forge
 Carolina Feldspar Mica Corporation
Va., Damascus
 Smethport Extract Co., Inc.
Va., Harrisonburg
 Excelsior Oak Extract Co.
Va., Iwanhoe
 National Carbide Co.
Va., Johnson
 American Mineral Co.
Va., Lynchburg
 Heald & Co., J. H.
Va., Norfolk
 American Fertilizer Co.
 Atlantic Chemical Corporation
 City Gas Co.
 Farmers Guano Co.
 Royster Chemical Works
 Royster Guano Co., F. S.
 Young Fertilizer Co., J. R.
Va., West Norfolk
 Virginia Smelting Co.
Va., Petersburg
 Southern Chemical Co.
Va., Richmond
 Interstate Commerce Co., W. Broad
 and Meadow Sts.
 Sauer Co., C. F.
 Sulphur Mining & Railroad Co.
 Virginia-Carolina Chemical Co.
Va., Roseland
 American Rutile Co.
Va., Saltville
 Mathieson Alkali Works, Inc., The
Va., St. Albans
 Roessler & Hasslachen Chemical Co.
Wash., Anacortes
 Robinson Fisheries Co.
Wash., Seattle
 American Nitrogen Products Co., Se-
 curities Bldg.
 Lilly Co., Chas. H.
 Seattle Lighting Co., 360 Stuart Bldg.
 Spokane Silica Co.
 West Coast Chemical Co., 6919 Wood-
 lawn Ave.
Wash., Spokane
 Betts Co., C. G.
 Fassett Co., C. M.
 Spokane Falls Gas Light Co.
Wash., Tacoma
 Carstens Packing Co.
 Mashell Paint Co.
 Pacific Coast Gypsum Co.
 Standard Chemical Co.
Wash., Valley (Stevens Co.)
 American Mineral Production Co.
W. Va., Charleston
 Rollin Chemical Co., Inc.
 Tanners Extract Co.
W. Va., Hartford
 American Calcium Chloride Works
 Mason Coal & Chemical Co.
W. Va., Huntington
 Lamm Chemical Co.
 Standard Ultramarine Co.
W. Va., Malden
 Dickinson Co., J. Q.
W. Va., Wheeling
 Kalbitzer Packing Co., C.
 Schenk & Sons Co., F.
Wis., Fond du Lac
 Huber & Fuhrman Drug Mills
Wis., La Crosse
 Langford-Boyd Packing Co.
Wis., Madison
 Burgess Mineral Co.
 Cleveland Mining Co.
 General Laboratories
Wis., Marinette
 Ansul Chemical Co.
Wis., Milwaukee
 Allis-Chalmers Mfg. Co.
 Blatz Brewing Co., Val.
 Corona Chemical Co.
 Currie Bros. Co., 312 Broadway
 Federal Rubber Co.
 Fiebing Chemical Co.
 Milwaukee Coke & Gas Co.
 Milwaukee Gas Light Co.
 National Distilling Co., 79 Buffalo St.
 Newport Chemical Works, Inc., 1112
 First National Bank Bldg.
 Newport Turpentine & Rosin Co., 1112
 First National Bank Bldg.
 Northwestern Iron Co., First National
 Bank Bldg.
 Patton Paint Co., 213 Lake Ave.
Wis., Racine
 Horlick's Malted Milk Co.
Wis., Wauwatosa
 Northwestern Chemical Co.

III. EQUIPMENT

Abrasives (see *Corundum, Emery*)

Ill., Chicago

Rhodes & Co., Jas. H., 157 W. Austin Ave

Mass., Worcester

Norton Co.

Mich., Detroit

Star Corundum Wheel Co., 241 Cavalry Ave.

Mass., Cambridge

Exolon Co.

N. Y., New York City

*Schaaf-Regelman, E., 21 State St.

N. Y., Niagara Falls

Carborundum Co.

General Abrasive Co.

Pa., Pittsburgh

Pittsburgh Crushed Steel Co., Ltd., 61st St. and A. V. Ry.

Wis., Wausau

Wausau Abrasives Co.

Absorption Apparatus

N. Y., Rochester

Will Corporation

Absorption Systems

Mass., Boston

Lummus Co., The Walter E., 173 Milk St.

N. Y., Buffalo

Devine Co., J. P.

N. Y., New York City

General Ceramics Co., 50 Church St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Accumulators, Hydraulic

Ill., Chicago

Elmes Engineering Works, Charles F., 215 N. Morgan St.

Perrin & Co., William R., Old Colony Bldg.

N. J., Aldena

Watson-Stillman Co., The

N. J., Newark

Burroughs Co., Charles, 141-149 Commerce St.

N. Y., New York City

Niles-Bement-Pond Co., 111 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Syracuse

Dunning & Boschert Co.

Ohio, Alliance

Alliance Machine Co.

Morgan Engineering Co.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Pa., Bethlehem

Bethlehem Steel Co.

Pa., Philadelphia

Southwark Foundry & Machine Co.

Pa., Pittsburgh

United Engineering & Foundry Co., Farmer's Bank Bldg.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Acetanilid Plants

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus, Walter E. Co., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Engineering Co., Erie County Bank Bldg.

N. Y., New York City

Kalberry Corp., 31 Union Square, W. Westinghouse, Church, Kerr & Co., 37 Wall St.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Acetate of Lime Plants (see *Calcium Acetate Plants*)

Acetic Anhydride Plants

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Mass., Fall River

Scott & Co., Ernest, Box 259

N. Y., Buffalo

Devine Co., J. P., Clinton St.

Pa., Philadelphia

Ott Co., George F., 209 Buttonwood St.

Acetometers

N. Y., Rochester

Will Corporation

Acetone Plants

N. Y., Buffalo

Zaremba Co., D. R., Morgan Bldg.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Acetone Plants—cont.*N. Y., Buffalo*

Devine Co., J. P.

N. Y., New York City

Kalbpery Corp., 31 Union Square, W.

Pa., Philadelphia

Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Scotland, Glasgow

Blair, Campbell & McLean, Ltd., Woodville St., Govan

Acetphenetidine Plants*Mass., Fall River*

Scott & Co., Ernest, Box 259

N. Y., Buffalo

Devine Co., J. P., Clinton St.

Acetylene Apparatus*Md., Baltimore*

Milburn Co., Alexander, 1420-1428 W. Baltimore St.

Ind., Indianapolis

Presto-O-Lite Co., Inc.

N. J., Newark

*International Oxygen Co., 796 Frohghuysen Ave.

N. Y., New York

Acetylene Gas Illuminating Co., 405 Broome St.

Air Reduction Sales Co., 120 Broadway
Oxweld Acetylene Co., 30 E. 12d St.**Acetylene Burners** (*see Burners, Gas*)**Acid Apparatus** (*see specific headings*)**Acid, Apparatus, Carbolic** (*see Phenol Apparatus and Plants*)**Acid Condensers** (*see Condensers, Acid*)**Acid Distillation Plants** (*see Distilling Apparatus*)**Acid Eggs***Ala., Birmingham*

American Cast Iron Pipe Co.

Ga., Atlanta

Pratt Engineering & Machine Co.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

N. J., Burlington

United States Cast Iron, Pipe & Foundry Co.

N. Y., Albany

Townsend Furnace & Machine Shop Co., Broadway and Rennselaer St.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Devine Co., J. P.

N. Y., New York City

General Ceramics Co., 50 Church St.

Machinery Utilities Co., Inc., 501 5th Ave.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Ohio, Elyria

Elyria Enameled Product Co.

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Pittsburgh

Rosedale Foundry & Machine Co., Columbus and Preble Aves.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Acid Masks (*see Masks, Acid or Fume Proof*)**Acid, Plants, Acetic***Md., Baltimore*

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Little Co., Inc., Arthur D., 93 Broad St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Devine Co., J. P.

N. Y., New York City

Dunroon Castings Co., 90 West St.

Kalbpery Corp., 31 Union Square, W.

Westinghouse, Church, Kerr & Co., 37 Wall St.

N. C., Charlotte

Chemical Construction Co.

Pa., Philadelphia

Blair, Campbell & McLean, Ltd.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Acid, Plants, Benzoic*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Acid, Planst, Citric*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.*N. Y., Buffalo*

Devine Co., J. P.

N. Y., New York City

Kalbpery Corp., 31 Union Square, W.

Acid, Plants, Fatty*Md., Baltimore*

Bartlett-Hayward Co.

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.*Mass., Fall River*

Scott & Co., Ernest

Pa., Pittsburgh

Aluminum Co. of America

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Acid, Plants, Hydrochloric (see*Acid, Muriatic, Plants)***Acid, Plants, Lactic***Md., Baltimore*

Bartlett-Hayward Co.

Mass., Fall River

Scott, Ernest & Co.

*N. Y., New York City*Kalbpery Corporation, 31 Union
Square, West**Acid, Plants, Mono Sulphanic***N. Y., Buffalo*

Devine Co., J. P.

Acid, Plants, Muriatic*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
Co.*N. C., Charlotte*

Chemical Construction Co.

*N. Y., Buffalo*Buffalo Foundry & Machine Co., 26
Winchester Ave.*N. Y., New York City*

General Ceramics Co., 50 Church St.

Kalbpery Corporation, 31 Union
Square, WestThermal Syndicate, Ltd., 50 E 41st
St.*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

*Pa., Philadelphia*Electro-Chemical Supply & Engineer-
ing Co., 1207 Stephen Girard Bldg.*Pa., South Bethlehem*

Bethlehem Foundry & Machine Co.

Acid, Plants, Nitric*England, Widnes*

Widnes Foundry Co., Ltd., The

Ga., Atlanta

Pratt Engineering & Machine Co.

Md., Baltimore

Bartlett-Hayward Co.

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.Little Co., Inc., Arthur D., 93 Broad
St.

Lumms Co., Walter E., 173 Milk St.

Mass., Fall River

Scott, Ernest & Co.

N. C., Charlotte

Chemical Construction Co.

*N. Y., Buffalo*Buffalo Foundry & Machine Co., Ferry
and Fillmore Aves.*N. Y., New York City*

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Kalbpery Corporation, 31 Union
Square, West*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pa., Coatesville

Coatesville Boiler Works

*Pa., Philadelphia*Electro-Chemical Supply & Engineer-
ing Co., 1207 Stephen Girard Bldg.*Pa., South Bethlehem*

Bethlehem Foundry & Machine Co.

Acid, Plants, Phosphoric*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.*Mass., Fall River*

Scott, Ernest & Co.

N. Y., New York City

Kalbpery Corp., 31 Union Square, W.

N. C., Charlotte

Chemical Construction Co.

*Pa., Philadelphia*Electro-Chemical Supply & Engineer-
ing Co., 1207 Stephen Girard Bldg.**Acid, Plants, Picric***England, Widnes*

Widnes Foundry Co., Ltd., The

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.

Lumms Co., Walter E., 173 Milk St.

Mass., Fall River

Scott, Ernest & Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

Acid, Plants, Picric—cont.

- N. Y., New York City*
 Duriron Castings Co., 90 West St.
 General Ceramics Co., 50 Church St.
Ohio, Akron
 U. S. Stoneware Co.

Acid, Plants, Pyrogallic

- N. Y., Buffalo*
 Devine Co., J. P.

Acid, Plants, Salicylic

- Mass., Boston*
 Badger & Sons Co., E. B., 63-75 Pitts St.
 Lummus Co., Walter E., 173 Milk St.
N. Y., Buffalo
 Devine Co., J. P.
N. Y., New York City
 Foundation Co., The, Woolworth Bldg.
Pa., South Bethlehem
 Bethlehem Foundry & Machine Co.

Acid, Plants, Sodium Sulphate

- N. Y., Buffalo*
 Devine Co., J. P.

Acid, Plants, Stearic

- Mass., Boston*
 Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
 Scott & Co., Ernest, P. O. Box 259.
Pa., South Bethlehem
 Bethlehem Foundry & Machine Co.

Acid, Plants, Sulphanilic

- Mass., Boston*
 Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
 Buffalo Foundry & Machine Co.
Pa., South Bethlehem
 Bethlehem Foundry & Machine Co.

Acid, Plants, Sulphuric

- Ga., Atlanta*
 Pratt Engineering & Machine Co.
Md., Baltimore
 Bartlett-Hayward Co.
Mass., Boston
 Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
 Scott, Ernest & Co.
N. Y., Brooklyn
 Abernathy, John F., 703 Myrtle Ave.
N. Y., New York City
 Duriron Castings Co., 90 West St.
 General Ceramics Co., 50 Church St.
 Kalberrry Corporation, 31 Union Square, West

Thermal Syndicate, Ltd., 50 E. 41st St.

- N. C., Charlotte*
 Chemical Construction Co.
Ohio, Akron
 U. S. Stoneware Co.
Ohio, East Akron
 Knight, Maurice A.
Pa., Coatesville
 Coatesville Boiler Works
Pa., Philadelphia
 Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
Pa., South Bethlehem
 Bethlehem Foundry & Machine Co.

Acid Proof Cement (see Cement, Acid Proof)**Acid Proof Stoneware Girders (see Girders, Acid Proof Stoneware)****Acid Recovery Plants**

- Mass., Boston*
 Badger & Sons Co., E. B., 63-75 Pitts St.
 Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
 Scott, Ernest & Co.
N. C., Charlotte
 Chemical Construction Co.
N. Y., New York City
 General Ceramics Co., 50 Church St.
 Kalberrry Corporation, 31 Union Square, West
 Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
 U. S. Stoneware Co.
Pa., Philadelphia
 Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Acid Wringers (see Wringers, Acid)**Acidometers**

- N. Y., Brooklyn*
 Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., New York City
 Eimer & Amend, 205-211 3d Ave.

Acidulators

- Del., Wilmington*
 Walker & Elliott, Inc.
Ga., Atlanta
 Pratt Engineering & Machine Co.
Mass., Boston
 Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
 Scott, Ernest & Co.

Adaptors, Retort*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-54 W. Kinzie St.

Mass., Boston

*International Equipment Co., 352 Western Ave.

N. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

N. Y., New York City

Emmer & Amend, Third Ave., at 18th St.

Pa., Philadelphia

*Thomas Co., Arthur H. W. Washington Square

Pa., Pittsburgh

*Scientific Materials Co., 717 Forbes St.

Aerators*Ill., Chicago*

Creamery Package Mfg. Co., 61 W. Kinzie St.

N. Y., Cortland

Champion Milk Cooler Co.

N. Y., Rochester

General Filtration Co., Cutler Bldg.

Vt., Bellows Falls

Vermont Farm Mach. Co.

Agatex*Mich., Detroit*

Trus-Con Laboratories, Caniff Road and G. T. R. R.

Agitating Systems, Air*Mass., Boston*

Sturtevant Co., B. F., Hyde Park

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Agitator Drives (see *Drives*)**Agitators** (see *Specific Headings*)**Agitators, Benzol***Md., Baltimore*

Bartlett, Hayward Co.

N. J., Burlington

U. S. Cast Iron, Pipe & Foundry Co.

Agitators, Cement*N. Y., New York City*

Dorr Co., 101 Park Ave

Agitators, Chemical*Colo., Denver*

Colorado Iron Works Co., 33d and Wynkoop St.

Dorr Company, Cooper Bldg.

Ill., Batavia

- Sperry & Co., D. R.

Ky., Louisville

Caldwell Co., W. E.

Md., Baltimore

Bartlett, Hayward Co.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Mich., Detroit

Detroit Heating & Lighting Co.

Mich., Saginaw

Werner & Pfeiderer, Inc.

Wickes Boiler Co.

N. J., Carteret

Wheeler Condenser & Evaporator Co.

N. J., Burlington

U. S. Cast Iron, Pipe & Foundry Co.

N. J., Jersey City

Corcoran, Inc., A. J.

Kovent Bro., L. O.

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. Y., Brooklyn

Abernathy, John F., 703 Myrtle Ave.

Burckhard, Thomas, Inc., 494 Flushing Ave

Johnson Co., John, 37th and 2d Aves.

N. Y., Buffalo

Devine Co., J. P.

Farrar & Trefts, 47 Perry St.

Sowers Mfg. Co., 1300 Niagara St.

N. Y., New York City

Acme Tank Co., 39 Cortlandt St.

Dorr Co., The, 101 Park Ave

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

International Process Co., 5 Beekman St

Stevens Brothers, 149 Broadway

Van Emden Co., H., 145 W. 45th St.

Jacoby, Henry E., 95 Liberty St.

N. Y., Rochester

General Filtration Co., Inc.

Pfaudler Co.

Ohio, Akron

Biggs Boiler Works Co., Kent St. and

B. & O. R. R.

Ohio, Cleveland

Cleveland Brass Mfg. Co., The

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Ohio, Elyria

Elyria Enameled Products Co.

Ohio, Leetonia

Leetonia Boiler Co.

Pa., Coatesville

Coatesville Boiler Works

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Agitators, Clay*Mich., Saginaw*

Werner & Pfeiderer, Inc.

N. J., Trenton

Crossley Machine Co., Bell and Monmouth Sts.

Ohio, Alliance

Reeves Brothers Co., 338 Rush St.

Agitators, Drug*Ind., Ft. Wayne*

Bowser & Co., S. F.

Mich., Saginaw

Werner & Pfeiderer, Inc.

N. Y., Buffalo

Sowers Mfg. Co., 1299 Niagara St.

Agitators, Glass Enameled*Ohio, Elyria*

Elyria Enameled Products Co.

Agitators, Liquids (*see also Agitators, Chemical*)*Ind., Ft. Wayne*

Bowser & Co., S. F.

Md., Baltimore

Bartlett, Hayward Co.

Mich., Saginaw

Werner & Pfeiderer, Inc.

N. Y., New York City

General Ceramics Co., 50 Church St.

N. Y., Rochester

Pfaudler Co., The

Agitators, Oil Refining*Ohio, Niles*

Standard Boiler & Plate Iron Co.

Pa., Warren

Warren City Tank & Boiler Works

Agitators, Paint*Ind., Ft. Wayne*

Bowser & Co., S. F.

Mich., Detroit

Detroit Heating & Lighting Co.

N. Y., Buffalo

Sowers Mfg. Co.

*Ohio, Cleveland*Fanner Mfg. Co., W. 25th, west of
Brooklyn Bridge*Ohio, East Liverpool*

Patterson Foundry & Machine Co.

Agitators, Paper Makers*Ky., Louisville*

Caldwell Co., W. E., Brook and D Sts.

Mich., Saginaw

Werner & Pfeiderer, Inc.

Ohio, Akron

Biggs Boiler Works Co., Kent St.

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Agitators, Wooden Tank*N. J., Jersey City*

Corcoran Inc., A. J., 763 Jersey Ave.

Air Compressors (*see Compressors, Air*)**Air Compressors, Pneumatic**(*see Compressors, Air, Pneumatic*)**Air Conditioning Apparatus***Conn., Hartford*

Connecticut Blower Co., Inc.

*Ill., Chicago*Drying Systems, Inc., 320 N. Michigan
Ave.Hlg Electric Ventilating Co., 131 Whit-
ing St.*Mass., Boston*

Spray Engineering Co., 93 Federal St.

Sturtevant Co., B. F.

Mich., Detroit

American Blower Co.

Mich., Kalamazoo

Clavage Fan Co

N. J., Camden

Webster & Co., Warren

N. Y., Buffalo

Buffalo Forge Co., 490 Broadway

*N. Y., New York City*Carrier Engineering Corporation, 39
Cortland St.Holly Pneumatic Systems, Inc., 145
W. 45th St.

Van Emden Co., H., 145 W. 45th St.

*Pa., Philadelphia*Braemer Air Conditioning Co., La-
fayette Bldg.**Air Devices, Automatic***Pa., Philadelphia*Monarch Mfg. Works, Inc., 3129
Emery St**Air Filtering Apparatus** (*see**Filters, Air*)**Air Moistening Apparatus***Mass., Lowell*

Turner Mfg. Co., J. S.

*Mich., Detroit*American Blower Co., 1400 Russell
Ave.*N. Y., New York City*Green Fuel Economizer Co., 90 West
St.Holly Pneumatic Systems, Inc., 145
W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Air Purifying Apparatus (*see**Purifiers, Air*)**Air-Separators, Vacuum***Ill., Chicago*Raymond Bros. Impact & Pulverizer
Co., 1327 N. Branch St.

Air Systems, for Transferring Acids and Corrosive Liquids*Mass., Boston*

Sturtevant Co., B. F., Hyde Park
N. Y., New York City
 Ingersoll-Rand Co., 11 Broadway

Air Washing Apparatus (*see Washers, Air*)**Albuminators, Esbach's***N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Alcohol, Plants, Ethyl*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mich., Detroit

Detroit Heating & Lighting Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Roos, Son, August, 429 E. 91st St.

Ohio, Cincinnati

American Copper & Brass Works

Pa., Philadelphia

Oat & Sons, Joseph, 230 Quarry St.

Ott Co., George F., 209 Buttonwood St.

Alcohol, Plants, Methyl*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Roos, Son, August, 429 E. 91st St.

Ohio, Cincinnati

American Copper & Brass Works

Ohio, Hamilton

Hamilton Copper & Brass Works

Pa., Philadelphia

Oat & Sons, Joseph, 230 Quarry St.

Ott Co., George F., 213 Buttonwood St.

Alcohol Recovery Plants*Md., Baltimore*

Bartlett, Hayward Co.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Devine Co., J. P.

Pa., Philadelphia

Stokes Machine Co., F. J.

Alizarine Plants (*see Dyeing Machinery or Aniline Plants*)**Alkali Plants***Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mass., Springfield

Green Co., Samuel M.

Me., Portland

Electron Chemical Co., 534 Congress St.

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

N. Y., New York City

Kalbperry Corp., 31 Union Square, W.

Warner Chemical Co., 52 Vanderbilt Ave.

Pa., Philadelphia

Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Pa., South Bethlehem

Bethlehem Steel Co.

Alkalimeters*N. Y., New York City*

Bernard & Co., F. J., 70 Murray St.

Alkalimeters, Bunsen's*N. Y., Rochester*

Will Corporation

Alternators, Turbo*N. J., Trenton*

De Laval Steam Turbine Co.

Aluminum Mill Machinery*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

N. Y., New York

Roos' Son, August, 429 E. 91st St.

Pa., Pittsburgh

Aluminum Co. of America

Garrison Foundry Co., 901 Bingham St.

Alundum*Mass., Worcester*

Norton Co., New Bond St.

Amalgamating Plants*Ill., Chicago Heights*

Chalmers & Williams, Inc.

N. Y., New York City

Worthington Pump & Machinery Corp., 115 Broadway

Pa., Allentown

Traylor Engineering & Mfg. Co.

Amalgamators

- Cal., Los Angeles*
Lane Mill & Machinery Co., 106 W. 3d St.
- Cal., San Francisco*
Senn Concentrator Co., 607 First National Bank Bldg.
- Col., Denver*
Morse Bros. Machinery & Supply Co., 1732 Wazee St.
- Mich., Saginaw*
Werner & Pfeiderer, Inc.
- N. Y., Brooklyn*
Houchin-Aiken Co., 113 53d St.
- Pa., Philadelphia*
Platinum Metals Co.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co.

Ammeters

- Conn., Waterbury*
Bristol Co.
- Ill., Chicago*
*Central Scientific Co., 460 E. Ohio St.
- N. J., Newark*
Hanson & Van Winkle Co., 269 Oliver St.
Weston Electrical Instrument Co., Waverly Park
- N. J., Trenton*
Pyroelectric Instrument Co., 636 640 E. State St.
- N. Y., New York City*
Bernard & Co., F. J., 70 Murray St.
Emmer & Amend, 205-211 3d Ave.
Pignolet, Louis M., 78 Cortlandt St.
Roller-Smith Co., 233 Broadway
- N. Y., Schenectady*
General Electric Co.
- Pa., Philadelphia*
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co., Wayne and Windrum Sts.
Queen-Gray Co., 616 620 Chestnut St.

Ammonia Condensers (see Condensers, Ammonia)**Ammonia Plants**

- Ga., Atlanta*
Pratt Engineering & Machine Co.
- Ill., Chicago*
Swenson Evaporator Co., 945 Monadnock Bldg.
Unger, John S., 3344 Broadway
- Ind., Fort Wayne*
Western Gas Construction Co.
- Md., Baltimore*
Bartlett, Hayward Co.
- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts St.

- Mass., Fall River*
Scott & Co., Ernest
- N. J., Carteret*
Wheeler Condenser & Engineering Co.
- Ohio, Cleveland*
Gas Machinery Co., 1900 Euclid Ave.
- Pa., South Bethlehem*
Bethlehem Foundry & Machine Co.
- Pa., Pittsburgh*
Koppers Co., H., Union Ave.

Ammonia Recovery Plants (see Recovery Plants)**Ammonium Sulphate Plants**

- Ga., Atlanta*
Pratt Engineering & Machine Co.
- Ill., Chicago*
Swenson Evaporator Co., 945 Monadnock Bldg.
Unger, John S., 3344 Broadway
- Ind., Fort Wayne*
Western Gas Construction Co.
- Md., Baltimore*
Bartlett-Hayward Co., Scott and McHenry Sts.
- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts St.
- Mass., Fall River*
Scott & Co., Ernest
- N. J., Carteret*
Wheeler Condenser & Engineering Co.
- N. Y., New York City*
Jacoby, Henry E., 95 Liberty St.
- Ohio, Cleveland*
Gas Machinery Co.
- Pa., Pittsburgh*
Koppers Co., H., Union Ave.

Ampoules

- Ind., Indianapolis*
Lilly & Co., Eli, 224 E. McCarthy St.
- Mich., Detroit*
Parke, Davis & Co.
- Mich., Kalamazoo*
Upjohn Co.
- N. J., Vineland*
Doerr Glass Co., Peach St. and Boulevard
- N. Y., New York City*
Scientific Utilities Co., Inc., 84 E. 10th St.

Amyl Acetate Plants

- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts St.
- Mass., Fall River*
Scott & Co., Ernest

Anemometers

- Cal., Los Angeles*
Braun Corp., 363 New High St.

Anemometers—cont.

- N. J., Hoboken*
Keuffel & Esser Co.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
N. Y., Rochester
Taylor Instrument Co
N. Y., Troy
Gurley, W. & L. E.
Pa., Philadelphia
Precision Thermometer & Instrument Co.

Aneroids

- N. Y., New York City*
Bernard & Co., F. J., 70 Murray St.
N. Y., Rochester
Taylor Instrument Co.

Aniline Plants

- Ill., Batavia*
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Brooklyn
Johnson Co., John
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Farrar & Trefts, Inc., 47 Perry St.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
Hercules Engineering Corporation, 501 Fifth Ave.
Jacoby, Henry E., 95 Liberty St.
Stevens Brothers, 149 Broadway
Pa., Philadelphia
Ott Co., George F., 209 Buttonwood St.

Aniline Oil Plants

- N. J., Elizabeth*
Moore & Sons Corporation, Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Annealing Machines, Rotary, with Sealed Retort

- N. Y., New York City*
American Gas Furnace Co., 24 John St.

Anodes (Classified lists follow)**Anodes, All Metals**

- Conn., Seymour*
Seymour Mfg. Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 50-56 W. Kinzie St.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
*Eimer & Amend, 205-211 3d Ave.
General Platers Supply Co., Inc.
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Anodes, Antimony

- Ill., Chicago*
Illinois Smelting & Refining Co., 410 N. Peoria St.

Anodes, Brass

- Conn., Seymour*
Seymour Mfg. Co.
Conn., Waterbury
American Brass Co.
Apothecaries Hall Co.
Scoville Mfg. Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., Buffalo
Buffalo Copper & Brass Rolling Mill, 446 Military Road
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Anodes, Carbon

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Cleveland
National Carbon Co.

Anodes, Cobalt

N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.

Anodes, Copper

Conn., Bridgeport
Bridgeport Brass Co.
Conn., Seymour
Seymour Mfg. Co.
New Haven Copper Co.
Conn., Waterbury
American Brass Co.
Apothecaries Hall Co.
Seoville Mfg. Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Md., Baltimore
Baltimore Copper Smelting & Rolling Co., 4th Ave. and 6th St.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., Buffalo
Buffalo Copper & Brass Rolling Mill, 446 Military Road
N. Y., New York City
American Metal Co., 61 Broadway
American Smelting & Refining Co., 120 Broadway
General Platers Supply Co., Inc., 58 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Anodes, Gold

Conn., Hartford
Ney & Co., J. M.
N. J., Matawan
Munning-Loeb Co.

N. J., Newark
Baker & Co., Inc.
Hanson & Van Winkle Co.
N. Y., Buffalo
Hoover & Strong, 119 W. Tupper Ave.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Platt Co., Charles S.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Anodes, Iridium

V. Y., Buffalo
Hoover & Strong, 119 W. Tupper St.

Anodes, Nickel

Conn., Seymour
Seymour Mfg. Co.
Conn., Waterbury
Apothecaries Hall Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
*Imex Corp., 25 Beaver St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Anodes, Platinum

Conn., Hartford
Ney Co., J. N.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., Buffalo
Hoover & Strong, 119 Tupper St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., Washington Square, W.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Anodes, Silver

Conn., Hartford
Ney & Co., J. N.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., Buffalo
Hoover & Strong, 119 W. Tupper St.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Platt Co., Charles C.

Anodes, Zinc

Conn., Waterbury
Apothecaries Hall Co.
Ill., Chicago
Great Western Smelting & Refining Co.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Ill., Peru
Illinois Zinc Co.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., New York City
American Metal Co., 61 Broadway
American Smelting & Refining Co., 120 Broadway
General Platers Supply Co., Inc., 58 Wall St.
Nassau Smelting & Refining Works
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co., Electric Bldg.

Anvils

N. Y., Brooklyn
Eimer & Amend, 3d Ave., 38th to 39th Sts.
Hay-Budden Mfg. Co., 254 N. Henry St.

Apparatus (Technical and Scientific)
(See also Specific Headings)

Cal., Berkeley
*University Apparatus Co., 2229 McGee Ave.
Cal., Los Angeles
*Braun Corporation, The, 363 New High St.
Cal., San Francisco
*Claire, Justenian Co., 573 Market St.
*Smith, C. W., 16 Washington St.
Cal., San Francisco
Braun-Knecht-Heinmann Co., 576 Mission St.

Colo., Denver
Denver Fire Clay Co., 1742 Champa St.
Mine & Smelter Supply Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Schaar & Co., 1025 S. State St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116 122 W. Illinois St.
*Gaertner & Co., Wm., 5345 Lake Park Ave.
Humboldt Mfg. Co., 2014 Nebraska Ave.
Kimble-Durand Glass Co., 402 W. Randolph St.
*Laboratory Materials Co., 640 E. 71st St.
*Sargent & Co., E. H., 125 W. Lake St.
*Schaar & Co., 1025 S. State St.
Stoelting Co., C. H., 121 N. Green St.
Olmstead Scientific Co., W. A.
Ill., East Moline
Standard Calorimeter Co.
La., New Orleans
New Orleans Copper Works
Mass., Boston
Emerson Apparatus Co., 251 253 Causeway St.
*Gleeson, Thos. W., 106 Sudbury St.
International Equipment Co., 352 Western Ave.
*Knott Apparatus Co., L. E., 16 Harcourt St.
Mahady Co., E. F., 671 Boylston St.
Mass., Cambridge
*International Instrument Co.
Mich., Ann Arbor
*Eberbach & Son Co.
Mich., Detroit
*Precision Instrument Co.
Mich., Lansing
*Apparatus & Specialty Co.
Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Hampton
Standard Water Systems Co.
N. J., Harrison
Driver Harris Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Millville
International Glass Co.
N. J., Newark
Baker & Co., Inc.
*Tobin & Co., James L., 279 Oraton St.

Apparatus—cont.*N. Y., Brooklyn*

Arwe Mfg. Co., Carl H., 1348 De Kalb Ave.

Graham Chemical Pottery Co., 986 Metropolitan Ave.

Silver & Co., 304 Hewes St.

N. Y., Buffalo

Buffalo Dental Mfg. Co., 587 Main St.

Ray Mfg. Co., Geo. A., 1495 Niagara St.

Devine Co., J. P., 1366 Clinton St.

N. Y., Corning

Corning Glass Works

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

Angel & Co., H. Reeve, 120 Broadway

Berge, J. & H., 95 John St.

Bramhall-Deane Co., 261 W. 36th St.

Eimer & Amend, 205-211 3d Ave.

Empire Laboratory Supply Co., 411 Lexington Ave

General Ceramics Co., 50 Church St.

Greiner Co., Emil, 55 Fulton St.

Kidder Mfg. Co., Jerome, 820 Broadway

Knv-Scheerer Co., 404 W. 27th St.

Kohlbusch, Herman, 170 Broadway

*Lenz Apparatus Co., 18 E. 16th St.

Louis Co., O. T., 70 5th Ave.

*Machlett & Son, E., 153 E. 84th St.

Mica Mfg. Co., 152 Chambers St.

Palo Co., 90-94 Maiden Lane

Stitzel & Buecher, 155 W. 29th St.

*Standard Scientific Co., 147 Waverly Pl.

Scientific Utilities Co., Inc., 81 E. 10th St.

N. Y., Rochester

Bausch & Lomb Optical Co.

*Castle Co., Wilmot

Wilt Corporation

Ohio, Cleveland

Ohio Chemical & Mfg. Co., 1199 Marquette at L. S. and M. S. Railway

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Erie

American Sterilizer Co.

Erie City Mfg. Co.

Pa., Carbondale

Griebel Instrument Co.

Pa., Malvern

Bishop & Co. Platinum Works, J.

Pa., Philadelphia

Bockel & Co., Wm., 518 Vine St.

Bernstein Mfg. Co., 3d and Allegheny Ave.

Caloris Co., 2110 Allegheny Ave.

Feidt & Co., Geo. D., 230 S. 7th St.

*Thomas Co., Arthur H., W. Washington Square

Whitall-Tatum Co., 410 Race St.

Pa., Pittsburgh

MacBeth-Evans Glass Co.

Scientific Materials Co., 711-719 Forbes St.

Wash., Spokane

Fawcett & Co., C. M.

Applicators, Wooden*N. Y., New York City*

Estes & Sons, E. B., 362 Fifth Ave.

Aprons, Laboratory*Ill., Chicago*

Chicago Belting Co.

Ill., Quincy

Cabinet Mfg. Co., 323-325 Main St.

Mass., Worcester

Grattont Knight Mfg. Co.

N. Y., New York City

*Eimer & Amend, 3d Ave., 38th to 39th Sts.

Ohio, Akron

Goodrich Co., B. F.

Aprons, Rubber*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

Mass., Boston

International Equipment Co., 252 Western Ave.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

U. S. Rubber Co.

Ohio, Akron

Goodrich Co., B. F.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Square

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Armlets, Acid*Canada, Montreal*

Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.

Arsenic Plants*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Artificial Silk Machinery (see

Silk Machinery, Artificial)

Asbestos Compounding Machines

Mich., Saginaw

Werner & Pfeiderer Co., 1260 N. Niagara St.

Ohio, Cincinnati

Day Co., J. H.

Asbestos, Crude and Fibre

Md., Woodlawn

Powhatan Mining Co.

Asbestos Suits

N. Y., Elmira

American-La France Fire Engine Co., Inc.

N. Y., New York City

Hayward & Co., S. F., 250 W. 54th St.

Ash Handling Systems (see also Conveyors)

Ill., Chicago

Link-Belt Co.

Ind., East Chicago

Green Engineering Co.

Ind., Elkhart

Griffin Engineering & Construction Co.

Mo., St. Louis

Girtanner-Daviess Eng. & Contg. Co., 504 Chemical Bldg.

N. Y., New York City

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ash Hoppers

N. Y., New York City

Dover Boiler Works, 50 Church St.

Asphalt Testing Apparatus

Ill., Chicago

Humboldt Mfg. Co., 2014 Nebraska Ave.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Square

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Aspirators

N. Y., Rochester

Will Corporation

Assayers' Supplies

Cal., Los Angeles

Braun Corp., The

Colo., Denver

Denver Fire Clay Co.

Mine & Smelter Supply Co.

Wash., Spokane

Fassett Co., C. M.

N. Y., New York City

Mine & Smelter Supply Co., 42 Broadway

Palo Co., 90 Maiden Lane

Atmospheric Control Apparatus

N. Y., New York City

Carrier Engineering Corporation, 39 Cortlandt St.

Atomizers, Laboratory

N. Y., Buffalo

Buffalo Forge Co

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

Industrial Filtration Corp., 115 Broadway

Pa., Philadelphia

Bokel & Co., Wm., 518 Vine St.

Whitall-Tatum Co., 410 Race St.

Atomizers, Steam

Mass., Boston

Codman & Shurtleff

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

N. Y., New York City

Beach-Russ Co., 220 Broadway

Kny, Scherer & Co., 404 W. 27th St.

N. Y., Rochester

Rochester Spray Pump Co., 179 Broadway

Ohio, Ashland

Myers & Brother, F. E., 900 Orange St.

Autoclaves

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Central Scientific Co., 460 E. Ohio St.

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Codd Co., E. J., 700 S. Caroline St.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummas Co., Walter E., 173 Milk St.

United Lined Tube & Valve Co.

Mass., Fall River

Scott & Co., Ernest

Mich., Detroit

Detroit Heating & Lighting Co.

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

Autoclaves—cont.

- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. Y., Brooklyn*
Burkhard, Inc., Thomas
- N. Y., Buffalo*
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Morgan Bldg.
- N. Y., New York City*
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Hercules Engineering Corporation, 501 Fifth Ave.
Jacobv, Henry E., 95 Liberty St.
Kellogg Co., The M. W., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, John L., 118 Fifth Ave.
Stevens Brothers, 149 Broadway
- N. Y., Rochester*
Pfaudler Co., The
Wilmot Castle Co., 800 St. Paul St.
- Ohio, Elyria*
Elyria Enameled Products Co.
- Pa., Coatesville*
Coatesville Boiler Works
- Pa., Fullerton*
Fuller-Lehigh Co.
- Pa., Philadelphia*
Ott Co., George F.
Stokes Machine Co., F. J., 17th and Cambria Sts.
- Pa., South Bethlehem*
Bethlehem Foundry & Machine Co.
- Pa., Williamsport*
Valley Iron Works

Autoclaves, Glass Enameled

- N. Y., New York City*
Mott Iron Works, John L., 118 Fifth Ave.
- N. Y., Rochester*
Pfaudler Co., The
- Ohio, Elyria*
Elyria Enameled Products Co.

Autoclaves, High Pressure

- Ill., Chicago*
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Bacteriological Apparatus

- Ill., Chicago*
*Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
Sargent & Co., E. H., 125 W. Lake St.

Mass., Boston

- International Equipment Co., 352 Western Ave.

N. Y., New York City

- Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90 Maiden Lane
Scientific Utilities Co., Inc., 84 E. 10th St.

N. Y., Rochester

- Bausch & Lomb Optical Co.
Will Corporation

Ohio, Columbus

- *Laboratory Supply Co., 41 E. Chestnut St.

Pa., Philadelphia

- Thomas Co., Arthur H., W. Washington Square

Pa., Pittsburgh

- Scientific Materials Co., 711-719 Forbes St.

Bag Filling Machines*Ill., Chicago*

- Link-Belt Co.

Mass., Fitchburg

- Brown Bag Filling Machine Co.

N. J., Newark

- Automatic Weighing Machine Co., 134 Commerce St.

Ohio, Columbus

- Jeffrey Mfg. Co., 904 N. 4th St.

Bags, Filter*Ga., Macon*

- Bibb Mfg. Co.

Mo., St. Louis

- Bemis Bros. Bag Co., 600 S. 4th St.
Chase Bag Co., 8 N. Main St.

N. Y., Brooklyn

- National Filter Cloth & Weaving Co.

N. Y., New York City

- Lane & Co., J. H., 334 4th Ave.
Turner, Halsey Co., 62 Leonard St.

Baking Machinery*Mich., Detroit*

- Detroit Heating & Lighting Co., 335 Wight St.

Mich., Saginaw

- Werner & Pfeiderer Co., 1260 N. Niagara St.

N. J., Jersey City

- Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Brooklyn

- Improved Appliance Co., 415 Kent Ave.

N. Y., Buffalo

- Buffalo Foundry & Machine Co., 47 Winchester Ave.

Ohio, Cincinnati

- Dry Co., J. H.

Baking Ware

N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
Pa., Rochester
Fry Glass Co., H. C.

Balance Rests

Ohio, Cambridge
Cambridge Glass Co.

Balances (*Classified lists follow*)**Balances**

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Thompson Balance Co., 808 20th St.
Ill., Chicago

Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
*Schaar & Co., 1025 S. State St.
Sargent & Co., E. H., 125 W. Lake St.
N. Y., New York City
Becker, Inc., Christian, 92 Reade St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Palo Co., 90 Maiden Lane
*Scientific Utilities Co., Inc., 84 E. 10th St.

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.
Greiner Co., Emil, 55 Fulton St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Scientific Equipment Co., 70 Fifth Ave.
*Standard Scientific Co., 147 Waverly Pl.
Torsion Balance Co., 92 Reade St.

N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Carbondale
Griebel Instrument Co.

Balances, Analytical

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
*Sargent & Co., E. H., 125 W. Lake St.
Welch Mfg. Co., W. M., 1516 Orleans St.

Mich., Ann Arbor
*Eberbach & Son Co.

Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.

N. Y., New York City
Becker, Inc., Christian, 92 Reade St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.

N. Y., Rochester
Bausch & Lomb Optical Co.

Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Square

Balances, Assay

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.

Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Thompson Balance Co., 808 20th St.

N. Y., New York City
Becker, Inc., Christian, 92 Reade St.
Eimer & Amend, 205 3d Ave.
Fairbanks Co., 416 Broome St.

Pa., Philadelphia
Queen-Gray Co., 518 Chestnut St.
*Thomas Co., Arthur H., 238 W. Washington Square

Troemner, Henry, 911 Arch St.

Utah, Salt Lake City
Keller Mfg. Co., G. P., 1388 S. State St.

Balances, Centrifuge Tube

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Balances, Chainomatic

Ill., Chicago
Deegan Supply Co., 116-122 W. Illinois St.

Balances, Chemical (*see Balances, Analytical*)**Balances, Precision** (*see Balances, Analytical*)**Balances, Westphal** (*see Balances, Analytical*)

Ballastic Instruments

Pa., Philadelphia
Precision Thermometer & Instrument
Co., 1434 Brandywine St.
Queen-Gray Co., 618-620 Chestnut St.

Ball Bearings

Conn., Bristol
New Departure Mfg. Co.
N. J., Harrison
Hyatt Roller Bearing Co.
Ohio, Canton
Timken Roller Bearing Co.
Pa., Philadelphia
Hess-Bright Mfg. Co., Front St.

Balls

Colo., Denver
Mine & Smelter Supply Co.
N. Y., New York City
Abbé, Paul O., New St. and Exchange
Pl.
Abbe Engineering Co., 220 Broadway
Hardinge Conical Mill Co., 120 Broad-
way
Worthington Pump & Machinery
Corp., 113 Broadway

Balls, Brass

N. Y., New York City
Boker & Co., H., Inc.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth
St.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and
Waverly Sts.
Powell Co., Wm., 2521 Spring Grove
Ave.

Balls, Bronze

N. Y., Buffalo
Excelsior Steel Ball Co.
N. Y., New York City
Boker & Co., Wm., Inc., Broadway
and Duane Sts.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth
St.

Balls, Copper

Conn., Hartford
Abbott Ball Co.
N. Y., Brooklyn
Johnson Co., J. D., 51 Boerum Pl.
N. Y., New York City
Boker & Co., Inc., Wm., Broadway and
Duane Sts.

Balls, Steel

Conn., Bristol
New Departure Mfg. Co.

Conn., Hartford
Abbott Ball Co., 1044 New Britain
Ave.

N. Y., Buffalo
Excelsior Steel Ball Co.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth
St.

Pa., Philadelphia
Standard Roller Bearing Co., 50th
and Lancaster Ave

Balls, Valve

N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth
St.

Ohio, Akron
Goodrich Co., B. F.

Balls, Stoneware

Ill., Monmouth
Western Stoneware Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
N. Y., New York City
General Ceramics Co., 50 Church St.

Barium Salts Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law
Bldg.

Barometers

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mass., Boston
*Lloyd Co., A. J., 315 Washington St.
N. J., Hoboken
Keuffel & Esser Co.
N. J., Rutherford
Becton, Dickinson Co.
N. Y., Brooklyn
Taghlabue Mfg. Co., C. J., 18-SS 33d
St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th
St.

N. Y., Rochester
Taylor Instrument Cos.
N. Y., Watertown
Watertown Thermometer Co.

Pa., Philadelphia
*Hand & Sons Co., John E., 224 Walnut
St.
Philadelphia Thermometer Co., 9th
and Arch Sts.
Queen-Gray Co., 618 Chestnut St.
Williams-Brown & Earle, 918 Chestnut
St.

Pa., Pittsburgh
*Elliott Co., B. K., 130 6th St.

Barometers, Mercurial*N. Y., Brooklyn*Schaeffer & Budenberg Mfg. Co.,
Berry and S. 5th Sts.**Barrel Handling Machinery***Ill., Chicago*Brown Portable Conveying Machinery
Co., 10 S. LaSalle St.
Caldwell & Son Co., H. W., 17th St.
and Western Ave.

Link-Belt Co.

Ind., Indianapolis

Atkins & Co., E. C., 402 S. Illinois St.

Ohio, Columbus

Bartlett & Snow Co., C. O.

Jeffrey Mfg. Co., 904 N. 4th St.

Wis., Milwaukee

Allis-Chalmers Co.

Barrels, Amalgamating*Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop St**Barrels, Bilge (see Barrels, Steel)****Barrels, Bilge, removable head***Mich., Detroit*

Detroit Range Boiler Co.

Barrels, Bilge, galvanized and black*Mich., Detroit*

Detroit Range Boiler Co.

Barrels, Chemical (see Barrels,*Steel; Barrels, Wood)***Barrels, Chlorinating***Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop St.*N. Y., New York City*Worthington Pump & Machinery
Corp., 115 Broadway*Wis., Milwaukee*

Allis-Chalmers Mfg. Co.

Barrels, Cyanide*Mich., Bay City*

MacKinnon Boiler & Machine Co.

Pa., Pittsburgh

Scaife & Sons Co., Wm. B., 21 1st Ave.

Wis., Cudahy

Power & Mining Machinery Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Barrels, Lead*N. Y., Brooklyn*Meurer Steel Barrel Co., 567 Flushing
Ave.*Ohio, Cincinnati*

Cincinnati Cooperage Co., W. 6th St.

Barrels, Steel*Cal., Torrance*

Pacific Metal Products Co.

Ill., Aurora

Lyon Metallic Mfg. Co.

*Ill., Chicago*National Enameling & Stamping Co.
Wilson & Bennett Mfg. Co., 65th Pl.
and 58th Ave.*Ill., Galesburg*

Metal Barrel Co.

Mich., Detroit

Detroit Range Boiler Co.

Detroit Steel Cooperage Co.

Mo., St. Louis

Brecht Co., 1252 Cass Ave.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Brooklyn

Meurer Steel Barrel Co.

*N. Y., New York City*National Enameling & Stamping Co.
411 Fifth Ave.

*Standard Tank Co., 15 Park Row

Ohio, Cleveland

Cleveland Steel Barrel Co.

Ohio, Columbus

Kilbourne & Jacobs Mfg. Co.

Ohio, Defiance

American Steel Package Co.

Ohio, Niles

Stevens Metal Products Co.

Ohio, Toledo

Tolko Steel Barrel Co.

Pa., Pittsburgh

Scaife & Sons Co., Wm. B., 221 1st Ave.

Pa., Sharon

Petroleum Iron Works Co.

Barrels, Steel, Tin or Lead Lined*Mich., Detroit*

Detroit Steel Barrel Co.

*N. Y., New York City*National Enameling & Stamping Co.,
411 Fifth Ave.*N. Y., Rochester*

Pfaedler Co.

Pa., Sharon

Petroleum Iron Works Co.

Wis., Milwaukee

Pressed Steel Tank Co.

Barrels, Tongued and Grooved Staves*N. Y., Niagara Falls*International Cooperage Co., Inc.,
Eric Ave. and 9th St.

Barrels, Tumbling

Ill., Harvey
Whiting Foundry Equipment Co.
N. J., Jersey City
Corcoran, Inc., A. J., 760 Jersey Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Barrels, Wood (*see also Tanks, Wood*)

Ill., Chicago
Pioneer Cooperage Co., 440-446 N. Hoyne Ave.
Ky., Louisville
Louisville Cooperage Co.
Md., Baltimore
Baltimore Cooperage Co., 1223 Lead-
enhall St.
Mo., St. Louis
St. Louis Cooperage Co.
N. Y., New York City
Colwell Cooperage Co., 412-414 Green-
wich St.
Ohio, Cincinnati
Cincinnati Cooperage Co., W. 6th St.

Barrels, White Pine

N. H., Nashua
Procter Bros. & Co., Marshall St.

Bars, Aluminum

Pa., Pittsburgh
Aluminum Co. of America, Oliver
Bldg.

Bars, Brass

Conn., Waterbury
The American Brass Co.
Conn., Bridgeport
Bridgeport Brass Co.

Bars, Bronze

Conn., Waterbury
The American Brass Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills,
99 Clark Ave.
Pa., Berwyn
American Bronze Co.

Bars, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boule-
vard

Bars, Steel

Ill., Chicago
Illinois Steel Co.
Mo., St. Louis
Laclede Steel Co.

N. Y., Lackawanna
Lackawanna Steel Co.
Ohio, Youngstown
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.
Pa., Philadelphia
Cambria Steel Co.
Pa., Pittsburgh
Carnegie Steel Co.
Jones & Laughlin Steel Co.
Pa., Bethlehem
Bethlehem Steel Co.

Basins

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Trenton
Maddock Sons Co., Thomas
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. Y., Troy
Troy Stamping Works

Baskets, Burnishing, Acid Proof

N. Y., New York City
General Ceramics Co., 50 Church St.
Multi Metal Co., 257 W. 19th St.
Ohio, East Akron
Knight, Maurice E.

Baskets, Centrifugal

Mass., Boston
American Tool & Machine Co., 10
High St.
N. Y., New York City
Multi Metal Co., 257 W. 19th St.
Ohio, Hamilton
Hamilton Copper & Brass Works

Baskets, Dipping

Mass., Worcester
Wright Wire Co.
N. J., Harrison
Driver-Harris Wire Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver
St.
Newark Wire Cloth Co., 222-228 Ve-
rona Ave.
N. Y., New York
General Ceramics Co., 50 Church St.
Multi Metal Co., Inc., 251 W. 19th St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Baskets, Pickling*N. Y., New York City*General Ceramics Co., 50 Church St.
Multi Metal Co., 257 W. 19th St.*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice E.

Batch Handling Machinery*Ill., Aurora*

Stephens Adamson Mfg. Co.

Baths, Air, Laboratory (*see Baths, Water*)**Baths, Drying** (*see Baths, Water*)**Baths, Sand***Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

N. Y., Brooklyn

Improved Appliance Co., 415 Kent Ave.

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

*Bernard & Co., F. J., 70 Murray St.

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Square

Baths, Serological*Ill., Chicago*

Chicago Surgical & Electrical Co., 314 W. Superior St.

Baths, Steam*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

N. Y., Brooklyn

Improved Appliance Co., 415 Kent Ave.

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

Baths, Wassermann*Ill., Chicago*

Chicago Surgical & Electrical Co., 314 W. Superior St.

Baths, Water*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

Chicago Surgical & Electrical Co., 314 W. Superior St.

*Daigger & Co., A., 52-56 W. Kinzie St.

*Schaar & Co., 1025 S. State St.

Mass., Boston

International Equipment Co., 352 Western Ave

N. Y., New York City

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Scientific Utilities Co., Inc., 84 E. 10th St.

Pa., Philadelphia

*Thomas Co., Arthur H., 238 W. Washington Sq.

Batteries, Diffusion*Ill., Chicago*

Swenson Evaporator Co., Monadnock Bldg.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St

N. Y., Buffalo

Zarembo Co., Niagara Life Ins. Bldg.

Batteries, Electric*Ill., Chicago*

Fairbanks, Morse & Co., 902 S. Wabash Ave.

Federal Sign System, Lake and Desplaines Aves.

N. J., Orange

Edison, Inc., Thomas A.

N. Y., New York City

Johns-Manville Co., H. W., Madison Ave. and 41st St.

Manhattan Electrical Supply Co., 17 Park Pl.

Western Electric Co., 195 Broadway

Ohio, Cleveland

National Carbon Co., Madison and Highland Aves.

Pa., Pittsburgh

Keystone Elec. Telephone Co., 614 Smithfield Ave.

Batteries, Extraction*Mass., Boston*

Lummas Co., Walter E., 173 Milk St.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Winchester Ave.

Zarembo Co., Niagara Life Bldg.

Batteries, Leaching*Ill., Chicago*

Swenson Evaporator Co., Monadnock Bldg.

Mass., Boston

Lummas Co., Walter E.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Equipment Co.

Zaremba Co., Niagara Life Bldg.

Pa., Philadelphia

Oat & Sons, Jos., 232 Quarry St.

Batteries, Storage*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

Ind., Indianapolis

Presto-O-Lite Co., Inc.

N. J., Orange

Edison Storage Battery Co.

N. Y., Niagara Falls

U. S. Light & Heat Corp.

Pa., Philadelphia

Electric Storage Battery Co., Allegheny Ave. and 19th St.

Battery Charging Equipment*N. Y., Schenectady*

General Electric Co

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co

Wis., Milwaukee

Cutler Hammer Mfg. Co

Beakers, Glass*Ill., Chicago*

Deegan Supply Co., 116 122 W. Illinois St.

N. J., Millville

International Glass Co.

N. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

N. Y., New York

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

*Palo Co., 90 Maiden Lane

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Whitall-Tatum Co.

Pa., Pittsburgh

Macbeth-Evans Glass Co.

Pa., Rochester

Fry Glass Co., H. C.

Beakers, Platinum*N. J., Newark*

American Platinum Co.

Baker & Co., Inc.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

Palo Co., 90 Maiden Lane

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Malvern

Bishop & Co., J., Platinum Works.

Beakers, Porcelain*Colo., Golden*

Herold China & Pottery Co.

Ohio, Cambridge

Guernsey Earthenware Co.

Ohio, Zanesville

Ohio Pottery Co., Dearborn St.

Beakers, Silica, Fused*N. Y., New York City*

Sidco Co. of America, 37-39 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Beams, Steel*Ill., Chicago*

Halsted Co., Jos., 1233 W. Randolph St.

Illinois Steel Co.

Inland Steel Co., 1st National Bank Bldg.

Scully Steel & Iron Co., 24th and Ashland Aves.

Ill., Chicago Heights

Calumet Steel Co.

N. Y., Buffalo

Lackawanna Steel Co.

Pa., Philadelphia

Cambria Steel Co.

Pennsylvania Steel Co.

Pa., Pittsburgh

Carnegie Steel Co.

Jones & Laughlin Steel Co.

United States Steel Corp.

Pa., Pottsville

Eastern Steel Co.

Pa., South Bethlehem

Bethlehem Steel Co.

Bell Glasses*N. Y., Rochester*

Will Corporation

Bellows, Hand*Ill., Chicago*

*Daigger & Co., A., 52-56 W. Kinzie St.

Ohio, Cincinnati

Obermayer Co., S., 647 Evans St.

Ohio, Cleveland

Bullock Mfg. Co., T. H., 1577 Columbus Road

Osborn Mfg. Co., 5401 Hamilton Ave.

N. E.

Wis., Two Rivers

Hamilton Mfg. Co.

Bells, Call*Conn., East Hampton*

Hill Brass Co., N. N.

Conn., Meriden

Bradley & Hubbard Mfg. Co.

International Silver Co.

N. Y., New York City

Graham & Co., John H., 113 Chambers St.

Belt, Canvas, Special Stitched*N. J., Newark*

Rossendale-Reddaway Belting & Hose Co., Euclid Ave.

Belt, Cotton, Solid Woven*N. J., Newark*

Rossendale-Reddaway Belting & Hose Co., Euclid Ave.

Belt, Chain*Ill., Chicago*

Caldwell & Son Co., H. W., 17th and Western Ave.

Link Belt Co. W. 39th and Stewart Ave.

N. Y., Ithaca

Morse Chain Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Tiffin

Webster Mfg. Co.

Belt, Link (see Belt, Chain)**Belting, Acid Resisting***Canada, Montreal*

Canadian Consolidated Rubber Co. Ltd., 201 Inspector St.

Md., Baltimore

Chesapeake Belting Co.

Mass., Boston

Boston Belting Corporation, 110 Summer St.

N. J., Passaic

Dick, Ltd., R. & J.

N. J., Trenton

Home Rubber Co.

N. Y., New York City

Dominion Asbestos & Rubber Corporation, 154 Nassau St.

International Leather & Belting Corporation, 511 Fifth Ave.

National Leather Belting Co., 342 E 38th St.

Schieren & Co., Chas. A., Schieren Bldg.

Ohio, Akron

Goodrich Co., B. F.

Pa., Philadelphia

Rhoads & Sons, J. E., 12 N. Third St.

Belting, Asbestos*N. Y., New York City*

Asbestos Textile Co., Woolworth Bldg. Dominion Asbestos & Rubber Corporation, 154 Nassau St.

Pa., Erie

Watson Co., H. F.

Belting, Canvas*Ga., La Grange*

Unity Cotton Mills

Mass., Boston

International Cotton Mills Corporation

Mass., Cambridge

Boston Woven Hose & Rubber Co.

Belting, Canvas, Stitched*N. Y., New York City*

National Leather Belting Co., Inc., 342 E. 38th St.

Belting, Conveyor*Ill., Chicago*

Caldwell & Sons Co., H. W., 17th and Western Ave.

Link Belt Co., W. 39th and Stewart Ave.

Mass., Boston

Clinton Wire Cloth Co., Sears Bldg.

Mass., Cambridge

Boston Woven Hose & Rubber Co.

Mass., Worcester

Graton & Knight Mfg. Co.

N. Y., Ithaca

Morse Chain Co.

N. Y., New York City

Schieren Co., Chas. A., Schieren Bldg.

U. S. Rubber Co., 1790 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Tiffin

Webster Mfg. Co.

Pa., Philadelphia

Quaker City Rubber Co.

Rhoads & Sons, J. E.

Belting, Cotton (see Belting, Canvas)**Belting, Leather***Ill., Chicago*

Chicago Belting Co., 113-125 Green St.

Link-Belt Co., W., 39th and Stewart Ave.

Ind., Columbus

Mooney & Sons, W. W.

Mass., Worcester

Graton & Knight Mfg. Co.

Mich., Detroit

Detroit Oak Belting Co., 266 Wight St.

Belting, Leather—cont.

- N. Y., New York City*
National Leather Belting Co., Inc.,
342 E. 38th St.
Schieren & Co., Chas. A., Schieren
Bldg.
- Ohio, Cincinnati*
Bradford Belting Co., 201 Walnut St.
- Pa., Philadelphia*
Rhods & Sons, J. E., 12 N. Third St.

Belting, Leather, Round

- N. Y., New York City*
National Leather Belting Co., Inc., 342
E. 38th St.

Belting, Leather, Steamproof

- Mass., Worcester*
Graton & Knight Mfg. Co.
- N. Y., New York City*
Central Belting Co., 151 Lafayette St.
Schieren & Co., Chas. A., Schieren
Bldg.

Belting, Leather, Waterproof

- Mass., Worcester*
Graton & Knight Mfg. Co.
- N. Y., New York City*
Central Belting Co., 151 Lafayette St.
Schieren & Co., Chas. A., Schieren
Bldg.

Belting, Link

- Del., Wilmington*
Walker & Elliott, Inc.
- Ill., Chicago*
Link-Belt Co., W., 39th St. and Stew-
art Ave.
- N. Y., New York City*
Schieren Co., Charles A., Schieren
Bldg.

Belting, Rubber

- Ill., Chicago*
Fairbanks, Morse & Co., 900 S. Wa-
bash Ave.
Link-Belt Co., 329 W. 39th St.
- Mass., Boston*
Boston Belting Corporation, 110 Sum-
mer St.
Boston Woven Hose & Rubber Co., 170
Summer St.
Globe Rubber Works, 45 High St.
- N. J., Trenton*
Acme Rubber Mfg. Co.
Thermoid Rubber Co., P. O. Box 814
United & Globe Rubber Mfg. Co.
- N. Y., Buffalo*
Hewitt Rubber Co., 240 Kensington
Ave.
- N. Y., New York City*
Dominion Asbestos & Rubber Cor-
poration, 154 Nassau St.

- Goodyear Rubber Co., 787 Broadway
Gutta Percha & Rubber Mfg. Co., 127
Duane Ave.
Peerless Rubber Mfg. Co., 31 Warren
Ave.
U. S. Rubber Co., 1790 Broadway
- Ohio, Akron*
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
- Ohio, Youngstown*
Republic Rubber Co.
- Pa., Philadelphia*
Quaker City Rubber Co., 629 Market
St.
Rhoads & Sons, J. E., 12 N. 3d St.
- R. I., Bristol*
National India Rubber Co.

Belting, Waterproof

- Ill., Chicago*
Chicago Belting Co., 113-25 Green St.
- Mass., Worcester*
Graton & Knight Mfg. Co.
- N. J., Bayonne*
Durvea Mfg. Co.
- N. Y., New York City*
Schieren Co., Charles A., Schieren Bldg.
U. S. Rubber Co., 1790 Broadway
- Pa., Philadelphia*
Rhoads & Sons, J. E.

Belting, Wire

- Mass., Boston*
Clinton Wire Cloth Co., Sears Bldg.
- Mass., Worcester*
Wright Wire Co., 69 Hammond St.

Bends, Acid Resistant

- Conn., Branford*
Malleable Iron Fittings Co.
- Ill., Chicago*
Crane Co., 800-838 S. Michigan Ave.
Eagle Picher Lead Co., 208 S. La Salle
St.
Raymond Lead Co., S. Huron St.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co.
- N. Y., New York City*
United Lined Tube & Valve Co., 111
Broadway
- Ohio, Akron*
U. S. Stoneware Co.
Weeks, A. J.
- Ohio, Cincinnati*
Lunkenheimer Co.
- Ohio, East Akron*
Knight, Maurice A.
- Pa., Pittsburgh*
Pittsburgh Valve, Foundry & Con-
struction Co.
- R. I., Providence*
General Fire Extinguisher Co.

Benzaldehyde Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Md., Baltimore

Bartlett, Hayward Co.

*N. Y., Buffalo*Buffalo Foundry & Machine Co.
Devine Co., J. P.*N. Y., New York City*Kalbperry Corp., 31 Union Square, W.
Bethlehem Foundry & Machine Co.**Benzine Plants***Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Benzol Plants*England, Widnes*

Widnes Foundry Co., Ltd., The

Ill., Chicago

Unger, John S., 3344 Broadway

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

*N. Y., Buffalo*Buffalo Foundry & Machine Co.
Devine Co., J. P.*Pa., Pittsburgh*

Koppers Co., H.

*Scotland, Glasgow*Blair, Campbell & McLean, Ltd.,
Woodville St., Govan**Benzol Recovery Plants** (*see**Benzol Plants*)**Betanaphthol Apparatus***Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Devine Co., J. P.

N. Y., New York City

Kalbperry Corp., 31 Union Square, W.

Bibbs (*see Cocks*)**Binders***Ill., Chicago*Standard Asphalt & Rubber Co., 137
La Salle Ave., S.*N. Y., New York City*

Barrett Mfg. Co., 17 Battery Pl.

Indian Refining Co., 17 Battery Pl.

Standard Oil Co., 26 Broadway

Texas Co., 17 Battery Pl.

Ohio, Cleveland

National Refining Co., Rose Bldg.

Pa., Pittsburgh

Gulf Refining Co., Frick Bldg.

Bins*Ill., Chicago*

Chicago Bridge & Iron Works

Ind., Fort Wayne

Western Gas Construction Co.

Ind., East Chicago

Graver Tanks Works, William

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mich., Muskegon

Muskegon Boiler Works

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Kingston

Universal Road Machinery Co.

Ohio, Cleveland

Brown Hoisting Machinery Co.

Ott Co., George F., 207 Buttonwood St.

Steel Improvement & Forge Co., 5000
Winsor Ave.*Ohio, Columbus*

Jeffrey Mfg Co.

Pa., Sharon

Petroleum Iron Works Co.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Biological Apparatus*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

*Mass., Boston*International Equipment Co., 352
Western Ave.*N. Y., New York City*

Eimer & Amend, 205-211 3d Ave.

Palo Co., 90 Maiden Lane

N. Y., Rochester

Pfaudler Co., The

*Pa., Philadelphia**Thomas Co., Arthur H., W. Washing-
ton Sq.Williams-Brown & Earle, 918 Chestnut
St.

Blackboards, Adamant

Ill., Chicago
United States Gypsum Co., 205 W.
Monroe St.

Blackboards, Slate

Pa., Bangor
Bangor Slate Mfg. & Supply Co.
Bangor National Slate Co.
Pa., East Bangor
East Bangor Consolidated Slate Co.
Pa., Easton
American Slate Co.
Pa., Slatington
Provident Slate Co.
Genuine Washington Slate Co.
Monarch Black Board & Structural
Slate Co.

Blanc Fixe Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law
Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts
St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
Kalbperly Corp., 31 Union Square, W.

Blankets, Asbestos

N. J., Manville
Johns-Manville Co.
N. Y., New York City
Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Corpora-
tion, 154 Nassau St.
Ohio, Lakeland
Carev Mfg Co

Blankets, Rubber

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Youngstown
Republic Rubber Co.

Blasting Machinery (see Drills)**Bleaching Machinery**

Ill., Chicago
Valhalla Co., Valhalla Bldg.
Mass., Holyoke
Holyoke Machine Co.

Mass., Orange

Hewt, Rodvey Machine Co.
N. Y., Amsterdam
Klauder-Weldon Dyeing Mach. Co.
Pa., Philadelphia
Butterworth & Sons Co., H. W., 2415
E. York St.
Philadelphia Drying Machinery Co.,
6721 Germantown Ave.
Pa., Pittston
Delahunty Dyeing Machine Co.
R. I., Providence
Textile Finishing Machinery Co., 81
Exchange Pl.

Bleach Plants

Me., Portland
Electron Chemical Co.
Mass., Fall River
Scott & Co., Ernest, Box 269
Mass., Springfield
Green Co., Samuel M.
N. Y., New York City
Warner Chemical Co., 52 Vanderbilt
Ave.

Blenders

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts
St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Ni-
agara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d
Ave.
Improved Appliance Co., 413 419 Kent
Ave.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
Ohio, Cincinnati
Day Co., J. H.

Blocks, Acid Proof

N. J., Manville
Johns-Manville Co.
N. Y., New York City
Dominion Asbestos & Rubber Corpora-
tion, 154 Nassau St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Knight, Maurice A.

Blow Torches, Kerosene

N. J., Jersey City
Otto Metal Goods Corporation, William
H., 401 St. Paul's Ave.

Blowcases

Ind., East Chicago
Graven Tank Works, Wm.
Mass., Fall River
Scott & Co., Ernest, Box 269
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Pa., Fullerton
Fuller Lehigh Co.
Pa., Philadelphia
Schutte & Koerting Co., 12th and
Thompson Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co

Blowers, Acid Fumes

Conn., Hartford
Connecticut Blower Co., Inc
Terry Steam Turbine Co.
Ill., Chicago
Hlg Electric Ventilating Co., 131 Whit-
ing St.
Mass., Boston
Barney Ventilating Fan Works, 62
High St.
Sturtevant Co., B. F., Hyde Park
N. J., Perth Amboy
Didier-March Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Machinery Utilities Co., Inc., 501 5th
Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Carbondale
Griebel Instrument Co.
Pa., Titusville
Titusville Iron Co.

Blowers, Blast

Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Brooklyn
Improved Appliance Co., 413-415 Kent
Ave.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.

Blowers, Centrifugal

Ill., Chicago
Hlg Electric Ventilating Co., 131 Whit-
ing St.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Forge Co.
Improved Appliance Co., 413-415 Kent
Ave
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
N. Y., Schenectady
General Electric Co.

Blowers, Cyclodial

N. Y., New York City
Worthington Pump & Machinery
Corp., 115 Broadway

Blowers, Electric

Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell
Ave.
N. J., Elizabethport
Diehl Mfg. Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., Schenectady
General Electric Co.
Pa., Pittsburgh
Westinghouse Electric & Mfg. Co.

Blowers, Exhaust

R. I., Providence
New England Ventilating & Heating
Co., 926 Manton Ave.
Ill., Chicago
Fairbanks-Morse & Co., Wabash Ave.
and Eldredge Pl.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell
Ave.
N. Y., Schenectady
General Electric Co.

Blowers, Fan

Conn., Hartford
Sterling Blower Co.
Ill., Chicago
Hlg Electric Ventilating Co., 154 Whit-
ing St
Power Engineering Co., Railway Ex-
change
Ind., Indianapolis
Indiana Fan Co., 40 E. South St.

Blowers, Fan—cont.

- Mass., Boston*
Electric Blower Co., 352 Atlantic Ave.
- Mass., Orange*
Chase Turbine Mfg. Co.
- Mich., Detroit*
American Blower Co.
- Mich., Saginaw*
Allington & Curtis Mfg. Co., 402 Holden St.
- N. J., East Orange*
New York Blower Co.
- N. J., Newark*
Coe Co., C. T., 10-14 Johnson St.
- N. J., Trenton*
De Laval Steam Turbine Co.
- N. Y., Brooklyn*
Improved Appliance Co., 413-415 Kent Ave.
- N. Y., Buffalo*
Bicalky Fan Co., 866 Prospect Ave.
Buffalo Forge Co., 490 Broadway
- N. Y., New York City*
General Ceramics Co., 50 Church St.
Green Fuel Economizer Co., 90 West St.
- R. I., Providence*
New England Ventilating & Heating Co., 926 Manton Ave.

Blowers, Flotation

- Ind., Connersville*
Connersville Blower Co.

Blowers, Foot

- N. Y., Brooklyn*
Improved Appliance Co., 413-415 Kent Ave.
- N. Y., Buffalo*
Buffalo Dental Mfg. Co.
- N. Y., New York City*
Bernard & Co., F. J., 70 Murray St.

Blowers, Forge Power

- Ind., Connersville*
Connersville Blower Co.

Blowers, Hand

- N. Y., New York City*
Bernard & Co., F. J., 70 Murray St.
Euler & Amend, 3d Ave. and 18th St.
- Pa., Philadelphia*
Thomas Co., Arthur H., W. Washington Square

Blowers, Laboratory (see Laboratory Apparatus and Equipment)**Blowers, Pressure**

- Conn., Hartford*
Connecticut Blower Co., Inc.
Spencer Turbine Co.

Ill., Chicago

- Ilg Electric Ventilating Co., 154 Whiting St.

Ill., Chicago Heights

- Canedy-Otto Mfg. Co.

Ind., Connersville

- Connersville Blower Works
Roots Co., P. H. & F. M.

Mass., Boston

- Sturtevant Co., B. F., Hyde Park

Mich., Detroit

- American Blower Co.

Mich., Kalamazoo

- Clarage Fan Co.

Mich., Niles

- National Standard Co.

N. J., Trenton

- De Laval Steam Turbine Co.

N. Y., Brooklyn

- Crowell Mfg. Co., 298 Taaffe Pl.

N. Y., Buffalo

- Buffalo Forge Co.

N. Y., New York City

- Abbe Engineering Co., 220 Broadway
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Provost Engineering Corp., 220 Broadway

Ohio, Piqua

- Piqua Blower Co., 810 S. Downing St.

Pa., Pottstown

- Wilbraham-Green Blower Co.

Blowers, Pressure, Positive

- N. Y., New York City*
Wing Mfg. Co., L. J., 352 W. 13th St.

Blowers, Rotary

- Ind., Connersville*
Roots Co., P. H. & F. M.
- Mass., Boston*
Sturtevant Co., B. F., Hyde Park
- Mich., Detroit*
American Blower Co., 1400 Russell St.
- N. Y., New York City*
General Ceramics Co., 50 Church St.
- Ohio, Piqua*
Piqua Blower Co., 810 S. Downing St.
- Pa., York*
York Electric & Machine Co., 30-34 N. Penn St.

Blowers, Rotary Positive

- Ind., Connersville*
Connersville Blower Co.

Blowers, Sand Blast

- Ill., Chicago*
Mott Sand Blast Co., 26 S. Clinton St.

Blowers, Smelter

Ind., Connersville
Connersville Blower Co.

Blowers, Soot

Ill., Chicago

Simonds & Co., G. L., 230 S. La Salle St.

Ill., Elgin

National Boiler Specialties Co.

Ind., Marion

Marion Machine Foundry & Supply Co.

Mass., Boston

Claffin Co., C. A., 161 High St.

Mich., Detroit

Diamond Power Specialty Co.

Mo., St. Louis

Bayer Steam Soot Blower Co., 2828-2840 La Salle St.

N. Y., Buffalo

Buffalo Forge Co.

General Specialty Co., 291-295 Michigan Ave.

N. Y., Troy

Monarch Steam Blower Co.

Pa., Du Bois

Vulcan Soot Cleaner Co.

Blowers, Ventilating (*see Blowers, Exhaust*)**Blowers, Volume**

Mich., Kalamazoo

Clarage Fan Co.

Blowpipes, Industrial

Conn., Hartford

Sterling Blower Co.

Ill., Chicago

Garden City Fan Co., 332 S. Michigan Ave.

Metal Specialties Mfg. Co., 736 W. Monroe St.

Oxweld Acetylene Co., 36th and Jasper Pl.

U. S. Blow Pipe & Dust Collecting Co., 2090 Canalport Ave.

La., New Orleans

American Blow Pipe & Ventilating Co., 438 Girod Ave.

National Blow Pipe & Mfg. Co., Ltd.

Mass., Boston

Allen Co., E. H., 41 Beverly St.

Mich., Detroit

American Blower Co., 1400 Russell Ave.

• Detroit Heating & Lighting Co.

Detroit Blowpipe Co., 551 Grand River Ave.

Detroit Dental Mfg. Co., 22 Milwaukee Ave.

N. Y., Buffalo

Buffalo Dental Mfg. Co., 587 Main St.

N. Y., New York City

America Gas Furnace Co., 24 John St.

International Process Co., 5 Beekman St.

Selas Co., 521 W. 23d St.

Ohio, Cincinnati

Kiechler Mfg. Co., Wade and Denman Sts.

Kirk & Blum, York and Western Sts.

Ohio, Cleveland

Cleveland Blow Pipe & Mfg. Co.

R. I., Providence

New England Ventilating & Heating Co.

Blowpipes, Laboratory

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 50-56 W. Kinzie St.

Mass., Boston

International Equipment Co., 352 Western Ave.

Mo., St. Louis

*Heil Chemical Co., Henry, 210-214 S. 4th St.

N. Y., New York City

*Eimer & Amend, 205 3rd Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Ohio, Columbus

*Laboratory Supply Co., 236 N. 3rd St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Blowpipes, Oxyacetylene

Mo., St. Louis

Henderson-Willis Welding & Cutting Co., 2305-2309 N. 11th St.

Blowpipe Tips, Platinum

N. J., Newark

American Platinum Works, 225 N. J. R. R. Ave.

Blowpipes, Welding

Conn., Bridgeport

Delcampe Welding Co.

Conn., New Haven

Oxy-Carbi Co.

Mass., Boston

Waterhouse Welding Co.

Blue Plants, Milori

N. Y., Buffalo

Devine Co., J. P.

Blue Plants, Soluble

N. Y., Buffalo
Devine Co., J. P.

Blue Print Cloth

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Blue Printing Machines

Ill., Chicago
Dietzgen Co., Eugene, 166 W. Monroe St.

Pease Co., C. F., 219 W. Institute Pl.
N. Y., New York City
New York Blue Print Paper Co., 58 Reade St.

Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.

Pa., Scranton
Technical Supply Co.

Blue Print Room Supplies

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Blue Print Sensitizing Machines

Ill., Chicago
Pease Co., C. F., 166 W. Adams St.

Boards, Indicator Tank

Md., Baltimore
Baltimore Cooperage Co., The

Boats, Combustion (*see Combustion Boats*)**Boiler Feed Water Treatment**
(*see Water Softening Systems*)**Boiler Fronts** (*see Fronts, Furnace*)**Boiler Settings**

Ill., Chicago
Vulcan Fuel Economy Co., 230 S. La Salle St.

Ky., Louisville
Vogt Machine Co., Henry

Pa., Curwensville
Crescent Refectories Co.

Pa., Pittsburgh
Rust Engineering Co., Keenan Bldg.

Boilers

Cal., San Francisco
Union Iron Works Co., 260 California Ave.

Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.

Del., Wilmington
Harlan & Hollingsworth Corp.
Pusey & Jones Co.

Ill., Chicago

Illinois Malleable Iron Co., 1801 Diversey Blvd.
Sullivan Machinery Co., 122 S. Michigan Ave.

Ill., Kewanee
Kewanee Boiler Co.

Ind., Fort Wayne
Brass Foundry & Machinery Co.

Iowa, Burlington
Murray Iron Works Co.

Maine, Bath
Bath Iron Workd, Ltd.

Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.

Mass., Boston
Atlantic Works, 70 Border St.

Mass., Frammingham
International Engineering Works, Inc.
Waverly St.

Mich., Detroit
Detroit Shipbuilding Co., Orleans St.
Great Lakes Engineering Works, Riverd and Detroit River
Detroit Range Boiler Co., 607-623 24th St.

Mich., Saginaw
Wickes Boiler Co.

N. J., Dover
Dover Boiler Works

N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.

N. Y., Buffalo
Farrar & Trefts, Inc.

N. Y., New York City
Akerlund & Semmes, 17 Battery Pl.
Dover Boiler Works, 55 Church St.
MacGovern & Co., Inc., 114 Liberty St.

Machinery Utilities Co., Inc., 501 5th Ave.
Sanborn Evaporator Co., 87 Wall St.

Ohio, Akron
Biggs Boiler Works Co.

Ohio, Cleveland
American Shipbuilding Co., Washington and Elm Aves.
Bartlett & Snow Co., C. O., 1040 French St.

Ohio, Warren
Warren City Tank & Boiler Works

Pa., Chester
Wetherill & Co., Robert

Pa., Coatesville
Coatesville Boiler Works

Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.

Pa., Pittsburgh
Munroe & Sons Mfg. Corp., 23d and Smallman Sts.
Scaife & Sons Co., Wm. B., 221 1st Ave.

Boilers—cont.*Pa., Reading*

Reading Iron Co.

Pa., Titusville

Titusville Iron Co.

Pa., West Chester

Sharples Separator Co.

Pa., Wilkes-Barre

Vulcan Iron Works

Boilers, Crane, Special*Ohio, Leetonia*

Leetonia Boiler Co., Kunkel Bldg.

Boilers, High Pressure Steam*Mass., Framingham*International Engineering Works, Inc.,
Waverly St.**Boilers, Return, Tubular***N. Y., New York City*

Akerlun & Semmes, Inc., 17 Battery Pl.

Pa., Coatesville

Coatesville Boiler Works

Pa., Williamsport

Keeler Co., E., 238 West St.

Boilers, Rotary, Bleaching*Ohio, Akron*Biggs Boiler Works Co., Bank & Wil-
liams Sts. and B. & O. R. R.*Ohio, Alliance*

Reeves Bros. Co.

Pa., Coatesville

Coatesville Boiler Works

Boilers, Still*Mich., Muskegon*

Muskegon Boiler Works, Eighth St.

Boilers, Storage*Ohio, Akron*Biggs Boiler Works Co., Bank and Wil-
liams Sts. and B. & O. R. R.**Boilers, Test Tube***Ill., Chicago*Chicago Surgical & Electrical Co., 314
W. Superior St**Boilers, Tubular, Horizontal, Return***Mich., Muskegon*

Muskegon Boiler Works

Ohio, Leetonia

Leetonia Boiler Co., Kunkel Bldg.

Boilers, Vertical*N. Y., New York City*

Akerlun & Semmes, Inc., 17 Battery Pl.

Ohio, Leetonia

Leetonia Boiler Co., Kunkel Bldg.

Boilers, Water Tube*Cal., San Francisco*

Bethlehem Shipbuilding Corporation

Ind., Fort Wayne

Bass Foundry & Machine Co.

Mass., Framingham

International Engineering Works, Inc.

Mich., Saginaw

Wickes Boiler Co.

N. Y., New York City

Beggs & Co., James, 32 Warren St

Ohio, Warren

Warren Tank & Boiler Co.

Pa., Erie

Erie City Iron Works

Pa., Williamsport

Keeler Co., E., 238 West St.

Boosters, Gas (see also Governors, Gas)*Ill., Chicago*

Sullivan Machinery Co.

Ill., Quincy

Gardiner Governor Co.

Ind., Connersville

Connersville Blower Co.

Mass., Boston

Sturtevant Co., B F., Hyde Park

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Booths, Steel*N. Y., Jamestown*Dahlstrom Metallic Door Co., 10
Blackstone Ave.*N. Y., New York City*

American Steel Co., 45 W. 34th St.

Boring and Drilling Machines, Horizontal*Conn., Bridgeport*

Bullard Machine Tool Co.

*Ill., Chicago*Chicago Flexible Shaft Co., 56th Ave.
and 12th St*Mass., Worcester*

Reed-Prentice Co.

*N. Y., New York City*Ingersoll-Rand Co., 11 Broadway
Niles-Bement-Pond Co., 111 Broad-
way*N. Y., Rochester*

American Woodworking Machine Co.

*Ohio, Cincinnati*Fosdick Machine Tool Co., Blue Rock
and Apple St.*Ohio, Cleveland*Cleveland Machine Tool Works, 3213-
3225 Superior Ave.Lucas Machine Tool Co., E. 99th St.
and N. Y. C. R. R.

Boring and Drilling Machines, Horizontal—cont.

Ohio, Cincinnati

American Tool Works

Pa., Philadelphia

Sellers & Co., Inc., Wm., 1600 Hamilton St.

Pa., Waynesboro

Landis Tool Co.

Wis., Milwaukee

Pawling & Harnischfeger Co.

Boring and Turning Machines, Vertical

Del., Wilmington

Betts Machine Co.

Ohio, Cincinnati

American Tool Works

Cincinnati Planer Co., Oakley

King Machine Tool Co.

Pa., Franklin

Colburn Machine Tool Co.

Pa., Philadelphia

Sellers & Co., Inc., Wm., 1600 Hamilton St.

Wis., Madison

Gisholt Machine Co.

Wis., Milwaukee

Pawling & Harnischfeger Co.

Boring, Drilling and Milling Machines

Md., Baltimore

Detrick & Harvey Machine Co.

Mass., Hudson

Universal Boring Machine Co., 30 Tower St.

Ohio, Cleveland

Cleveland Machine Tool Works, 3213-3225 Superior Ave.

Wis., Madison

Gisholt Machine Co

Bottle-Blowing Machinery

Ind., Anderson

Dice Machine Co.

Ind., Terre Haute

O'Neill Bottle Machine Co.

N. Y., New York City

United Bottle Machinery Co., 90 W. Broadway

Ohio, Toledo

Kent-Owens Machine Co

Owens Bottle Machine Co

Bottle Caps

Ohio, Cambridge

Cambridge Glass Co.

Bottle Caps, Paper

N. J., Vineland

Sayford Paper Specialty Co.

N. Y., New York City

McKesson & Robbins, Inc., 91 Fulton St.

Weiss Co., The M., 18 Warren Ave.

Bottle Cockers

Ill., Chicago

Redlich Mfg. Co., 637 W. Oak St.

Bottle Filling Machinery

Ill., Chicago

Creamery Package Mfg. Co., 30 La Salle St.

Liquid Carbonic Co.

U. S. Bottlers' Machinery Co., 2511 Park Ave.

Md., Baltimore

Crown Cork & Seal Co

Mass., Boston

American Soda Fountain Co., 282 Congress St

Ohio, Cleveland

Bishop-Babcock-Becker Co.

Wis., Milwaukee

Vilter Mfg. Co.

Bottle Rinsing Machinery

Ill. Chicago

Magnus Sons Co., A., 327 W. Randolph St.

U. S. Bottlers' Machinery Co., 1033 W. Lake St.

Ill., North Chicago

Davis Milk Machinery Co.

N. Y., Buffalo

Rice & Adams Corp.

Ohio, Cleveland

Loew Mfg. Co.

Bottle Sealing Machinery

Ill., Chicago

Creamery Package Mfg. Co., 30 La Salle St.

Liquid Carbonic Co.

U. S. Bottlers' Machinery Co., 2511 Park Ave.

Md., Baltimore

Crown Cork & Seal Co.

N. Y., Brooklyn

Phoenix-Hermetic Co., 38th and 14th Ave.

Bottles, Cork Stoppered

N. J., Millville

Wheaton Co., T. C.

Bottles, Dropping

V. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

N. Y., New York City

Bernard & Co., F. J., 70 Murray St.

Pa., Carbondale

Griebel Instrument Co.

Bottles, Gas

Pa., *Carbondale*
Griebel Instrument Co.

Bottles, Gas Washing

N. J., *Vineland*
Doerr Glass Co., Peach St. and Boulevard
N. Y., *New York City*
Bernard & Co., F. J., 70 Murray St.

Bottles, Glass

Ill., *Alton*
Illinois Glass Co.
Ill., *Chicago*
*Daigger & Co., A., 52-56 W. Kinzie St.
Ill., *Danville*
Headley Glass Works
Ind., *Indianapolis*
Fairmount Glass Works
N. J., *Glassboro*
Whitney Glass Works
N. J., *Millville*
International Glass Co.
Wheaton Co., T. C.
N. J., *Williamstown*
Williamstown Glass Co.
N. Y., *Corning*
Corning Glass Works
N. Y., *New York City*
*Eimer & Amend, 205-211 3d Ave.
Scientific Utilities Co., Inc., 84 E. 10th St.

Ohio, *Newark*
Heisey & Co., Inc., A. H.

Ohio, *Toledo*
Owens Bottle Machine Co.

Pa., *Allentown*
Allentown Flint Bottle Co.

Pa., *Philadelphia*
Fox & Sons, Inc., H. C., Schuylkill Ave. and Catherine St.
Maris & Co., J. M.
Thomas Co., Arthur H., W. Washington Square.
Whitall-Tatum Co., 410 Race St.

Pa., *Pittsburgh*
MacBeth-Evans Glass Co.
U. S. Glass Co., S., 9th and Bingham Aves.

Pa., *Rochester*
Fry Co., H. C.

W. Va., *Wheeling*
Central Glass Works

Bottles, Glass Stoppered

N. J., *Millville*
Wheaton Co., T. C.

Bottles, Gramercy, Reagent

N. Y., *New York City*
Eimer & Amend, 205-211 3d Ave.

Bottles, Infusion

Ohio, *Cambridge*
Cambridge Glass Co.

Bottles, Mixing

N. Y., *New York City*
Bernard & Co., F. J., 70 Murray St.

Bottles, Platinum

N. J., *Newark*
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., Murray and Austin St.
Pa., *Malvern*
Bishop & Co., Platinum Works, J.

Bottles, Prescription

N. J., *Vineland*
Doerr Glass Co., Peach St. and Boulevard
Pa., *Philadelphia*
Whitall-Tatum & Co., 410 Race St.

Bottles, Reagent

N. Y., *New York City*
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., *Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Bottles, Specific Gravity

N. Y., *New York City*
Scientific Utilities Co., Inc., 84 E. 10th St.

Bottles, Stoneware (*see Stoneware, Chemical*)**Bottles, Weighing**

N. J., *Vineland*
Doerr Glass Co., Peach St. and Boulevard
N. Y., *New York City*
Bernard & Co., F. J., 70 Murray St.

Bottles, Weighing Pipette

N. Y., *New York City*
Bernard & Co., F. J., 70 Murray St.

Bottles, Woulff

N. Y., *New York City*
Bernard & Co., F. J., 70 Murray St.
General Ceramics Co., 50 Church St.
Ohio, *East Akron*
Knight, Maurice A.

Bottle Stoppers, Patent

Pa., *Philadelphia*
Whitall-Tatum & Co., 410 Race St.

Bowls, Acid Proof*Colo., Denver*

Colorado Iron Works Co.

N. J., Burlington

Stuart & Peterson Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Dayton

Duriron Castings Co.

Ohio, East Akron

Knight, Maurice A.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Bowls, Evaporating*England, Deepfields, nr. Bilston, Staffs*

Cannon Iron Foundries, Ltd.

Bowls, Graphite Spelter*N. J., Jersey City*

Dixon Crucible Co., Joseph

Bowls, Solution*Ohio, Cambridge*

*Cambridge Glass Co.

Boxes, Annealing and Carbonizing*N. J., Garwood*

Garwood Bronze & Iron Works

Boxes, Carbonizing*Ohio, Cleveland*

Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.

Boxes, Catch*N. Y., Olean*

Luther Mfg. Co., 133 Railroad Ave.

Boxes, Fibre*Del., Wilmington*

American Vulcanized Fibre Co.

Pa., Bridgeport

Diamond State Fibre Co.

Boxes, Fixing*Ohio, Cambridge*

*Cambridge Glass Co.

Boxes, Graphite*N. J., Jersey City*

Dixon Crucible Co., Joseph

Boxes, Heat Treating*Ohio, Cleveland*

Cleveland Brass Mfg. Co., 3606-4700 Hamilton Ave.

Boxes, Metal*Ill., Aurora*

Lyon Metallic Mfg. Co.

Ohio, Cleveland

Cleveland Wire Spring Co.

Globe Machine & Stamping Co.

Boxes, Microscopic Slide*N. Y., New York City*

*Estes & Sons, E. B., 362 5th Ave.

Boxes, Refinery*Pa., Oil City*

Reid Gas Engine Co., Joseph

Boxes, Resistance*N. J., Trenton*

Pyroelectric Instrument Co., 636-640 E. State St.

Boxes, Steel*Ill., Aurora*

Allsteel Equipment Co.

Lyon Metallic Mfg. Co.

N. Y., New York City

Cave Welding & Mfg. Co., 32 Liberty St.

Boxes, Water*Ohio, Lectoria*

Lectoria Boiler Co., Kunkel Bldg.

Boxes, Zinc*Colo., Denver*

Colorado Iron Works Co.

Brakes, Gravity Tramway*Colo., Denver*

Colorado Iron Works Co., 33d and Wynkoop Sts.

Brakes, Magnetic*Ohio, Cleveland*

Electric Controller & Mfg. Co., 2698 E. 79th St.

Branding Machines*Ohio, Cleveland*

Eureka Machine Co., 2610 Vega Ave.

Brass Work*Pa., Philadelphia*

Ott, Geo., F., 209 Buttonwood St.

Wis., Milwaukee

Sommers & Sons Co., Galena and 31st Sts.

Breakers (see Crushers)

Breakers, Electric Heat Control Circuit

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Breakers, Switchboard and Circuit

N. Y., Schenectady
General Electric Co
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Breathing Devices

Ill., Chicago
Life Saving Devices Co., 564 W. Monroe St.

N. Y., New York City
Multi Metal Co., Inc., 257 W. 19th St
Pa., Pittsburgh
Draeger Oxygen Apparatus Co., 422 First Ave.

Breechings, Smoke or Gas

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Breechings, Steel

Ind., East Chicago
Graver Tank Works, Wm.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
*Standard Tank Co., 15 Park Row
Ohio, Alliance
Reeves Bros. Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Coatesville
Coatesville Boiler Works
Pa., Erie
Erie City Iron Works
Pa., Sharon
Petroleum Iron Works Co.

Brick, Acid Proof

Ala., Birmingham
Graves Shale Paving Brick Co.
Ga., Atlanta
Hood Brick Co., B. Mifflin
Ill., Chicago
Chicago Retort & Fire Brick Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., St. Louis
LaCledde-Christy Co.
N. J., Perth Amboy
Didier-March Co.
N. Y., New York City
General Ceramics Co., 50 Church St.

N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Wash., Seattle
Denny-Renton Clay & Coal Co.

Brick, Blast Furnace

Ky., Ashland
Ashland Fire Brick Co.

Brick, Carborundum

N. J., Perth Amboy
Didier-March Co., P. O. Box 327

Brick, Chrome

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Brick, Cork

Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Brick, Enameled

N. Y., New York City
American Enameled Brick & Tile Co., 52 Vanderbilt Ave.

Brick, Fire

Colo., Denver
Denver Fire Clay Co.
Ga., Atlanta
Hood Mifflin Brick Co., B
Ill., Chicago
American Refractories Co., 206-210 S. La Salle St
Chicago Fire Brick Co.
Chicago Retort & Fire Brick Co.
Ind., Evansville
Uhl Pottery Co.
Ky., Ashland
Ashland Fire Brick Co.
Mo., St. Louis
Evans & Howard Fire Brick Co., 920 Market St.
Hydraulic Press Brick Co.
Laclede-Christy Clay Products Co., Railway Exchange Bldg.
Walsh Fire Clay Products Co.
N. J., Perth Amboy
Didier-March Co.

Brick, Fire—cont.*N. Y., New York City*

American Enameled Brick & Tile Co.
 Celite Products Co., 11 Broadway
 Federal Terra Cotta Co., 103 Park Ave.
 Maurer & Son, Henry, 420 E. 23d St.

Ohio, Cincinnati

Taylor Sons Co., Chas.

Pa., Philadelphia

Foots Mineral Co.
 Lavino & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Harbison-Walker Refractories Co.,
 Farmers Bank Bldg.

Tenn., Jackson

Jackson Fire Brick Co.

Brick, Graphite*N. J., Jersey City*

Dixon Crucible Co., Joseph

Brick, Insulating*N. Y., New York City*

Celite Products Co., 11 Broadway

Pa., Pittsburgh

Armstrong Cork & Insulation Co., 122
 24th St.

Brick Machinery*Mich., Lansing*

Lansing Co.

N. J., Trenton

Crossley Machine Co.

Ohio, Bucyrus

American Clay Machinery Co

Ohio, Cleveland

Bartlett & Snow Co., C. O

Ohio, Plymouth

Fate Co., J. D

Brick, Magnesia*Ohio, Cleveland*

Stowe Fuller Co.

Pa., Pittsburgh

Harbison-Walker Refractories Co.,
 Farmers Bank Bldg.

Lavino & Co., E. J., Bullitt Bldg

Brick, Rubbing*N. Y., Niagara Falls*

Carborundum Co.

Brick, Silica*Ohio, Cleveland*

Stowe Fuller Co.

Pa., Pittsburgh

Harbison-Walker Refractories Co.,
 Farmers Bank Bldg.

Lavino & Co., E. J., Bullitt Bldg.

Brick, Vitrified*Ga., Atlanta*

Hood Brick Co., B. Miffin, Candler
 Bldg.

Ill., Chicago

Chicago Retort & Fire Brick Co., 204
 S. La Salle St.

Mo., St. Louis

Hydraulic Pressed Brick Co.

Ohio, Akron

American Sewer Pipe Co.

Pa., Pittsburgh

Harbison-Walker Refractories Co.,
 Farmer's Bank Bldg.

Bridges*Ill., Chicago*

Chicago Bridge & Iron Works, 105th
 and Throop Sts.

Lunk Belt Co., W. 39th and Stewart
 Ave.

N. Y., New York City

American Bridge Co., 30 Church St.

Wis., Milwaukee

Wisconsin Bridge & Iron Co.

Briquettes, Aluminum (Light Scrap)*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Anthracite*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Bituminous Coal*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Blast Furnace Flue Dust*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Brass Scrap*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Cast Iron (Borings)*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Metal Dross*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Steel (Chips)*N. Y., New York City*

General Briquetting Co., 25 Broad St.

Briquettes, Zinc Dust

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquette Molds, for Asphalt and Cement

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Briquetting Machines

N. Y., New York City
General Briquetting Co., Inc., 41 Broadway
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Brown, Bismarck, Plants

N. Y., Buffalo
Devine Co., J. P.

Brown Print Cloth

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Brown Print Paper

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Brushes, Acid

Ohio, Cleveland
Osborn Mfg. Co., 5401 Hamilton Ave., N. E.

Brushes, Beaker

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Bottle

N. Y., New York City
Hahn, A. W., 359 Greenwich St.
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Burette

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Graduate

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Pipette

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Test Tube

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
International Equipment Co., 252 Western Ave.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Leiner & Co., George S., 1250 Brook Ave.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.

Buckets, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
U. S. Rubber Co., 1790 Broadway
Ohio, East Akron
Knight, Maurice A.
R. I., Bristol
National India Rubber Mfg. Co.

Buckets, Coal

Col., Denver
Mine & Smelter Supply Co.
Ill., Chicago
Link-Belt Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Mass., East Boston
Mead-Morrison Mfg. Co., Prescott and Orleans Sts.
Minn., St. Paul
American Hoist & Derrick Co.
N. Y., New York City
Worthington Pump & Machinery Corporation
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Ohio, Columbus
Jeffrey Mfg. Co., 956 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Cham Belt Co.

Buckets, Conveying (*see Conveyors, Buckets*)

Buckets, Elevator*Del., Wilmington*

Walker & Elliott, Inc.

*Ill., Chicago*Caldwell & Son Co., H. W., 17th St.
and Western Ave.

Link-Belt Co.

Weller Mfg. Co., 1820-1856 N. Kostner
Ave.*Ill., East Aurora*

Stephens-Adamson Mfg. Co.

Md., Baltimore

Codd Co., E. J., 700 S. Caroline St.

*N. Y., New York City*Worthington Pump & Machinery Cor-
poration*Ohio, Cleveland*

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Pa., Carbondale

Cross Engineering Co.

Wis., Milwaukee

Allis Chalmers Mfg. Co.

Chain Belt Co., 734 Park St.

Buckets, Excavating*Ill., Chicago*Andresen-Evans Co., 646 Railway Ex-
change Bldg.*N. Y., New York City*

Hayward Co., 50 Church St.

Worthington Pump & Machinery Cor-
poration*Ohio, Cleveland*Wellman-Seaver-Morgan Co., 7004
Central Ave.*Pa., Erie*

Williams Co., G. H.

Buckets, Grab*Ill., Chicago*

Link-Belt Co.

Orton-Steinbrenner Co., 608 S. Dear-
born Ave.*Mass., East Boston*

Mead Morrison Mfg. Co.

Mich., Detroit

Northern Engineering Works

*Minn., Duluth*Clyde Iron Works, 29th Ave., West
and Michigan Ave.*Mo., St. Louis*

Simmons Hardware Co.

N. Y., New York City

Hayward Co., 50 Church St.

N. Y., West New Brighton, Staten Island

Hunt Co., Inc., C. W.

Ohio, Cleveland

Brown Hoisting Machinery Co.

Wellman-Seaver-Morgan Co.

Pa., Erie

Williams Co., G. H.

Buckets, Grab, Single Line*Ill., Harvey*

Whiting Foundry Equipment Co.

Buckets, Hard Rubber*N. J., Trenton*

Luzerne Rubber Co., Muirheid Ave.

**Buckets, Hoisting (see Buckets,
Coal and Ore)****Buckets, Orange Peel***Ill., Chicago*Andresen-Evans Co., 646 Railway Ex-
change Bldg.

Link Belt Co.

N. Y., New York City

Hayward Co., 50 Church St.

**Buckets, Ore (see Buckets, Coal and
Ore)****Buckets, Self-Dumping***Ill., Chicago*

Link-Belt Co., 329 W. 39th St.

*Minn., Duluth*Clyde Iron Works, 29th Ave., West and
Michigan St.*N. J., Jersey City*

Koven & Bro., L. O., 200 Ogden Ave.

*N. Y., Long Island City*Steubner Iron Works, G. L., Hancock
St. and Vernon Ave.*N. Y., West New Brighton, Staten Island*

Hunt Co., Inc., C. W.

*Ohio, Cleveland*Brown Hoisting Machinery Co., 4403
St. Clair St.*Pa., Koppel*

Orenstein-Arthur Koppel Co.

Buckets, Tilting*Ohio, Leontonia*

Leontonia Boiler Co., Kunkel Bldg.

Buddles*Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop Sts.**Bulbs, Connecting, Kjeldahl***N. J., Vineland*Doerr Glass Co., Peach St. and Boule-
vard**Bulbs, Incandescent***N. Y., Corning*

Corning Glass Works

Ohio, Toledo

Libby Glass Co.

Pa., Pittsburgh

MacBeth Evans Glass Co.

Bulbs, Kjeldahl (*see Laboratory Apparatus and Equipment*)

Bulbs, Nitrogen (*see Laboratory Apparatus and Equipment*)

Bulbs, Potash (*see Laboratory Apparatus and Equipment*)

Bumpers, Rubber

Mass., Boston

Boston Belting Co., 84 Linden Park St.

Ohio, Akron

Goodrich Co., B. F.

Pa., Philadelphia

Quaker City Rubber Co.

Bungs, Wooden

Ill., Chicago

Redlich Mfg. Co., 637 W. Oak St.

Bunkers, Coal

Cal., Los Angeles

Llewellyn Iron Works

Ill., Chicago

Chicago Bridge & Iron Works, Old Colony Bldg.

Ind., East Chicago

Graver Tank Works, Wm

Mass., Fall River

Scott & Co., Ernest

N. J., East Burlington

United States Cast Iron Pipe & Foundry Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Farrar & Trefts

N. Y., New York City

American Bridge Co., 30 Church St

Dover Boiler Works, 50 Church St.

Stevens Bros., Singer Bldg

Ohio, Akron

Biggs Boiler Works Co.

Pa., Coatesville

Coatesville Boiler Works

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Sharon

Petroleum Iron Works Co.

Burettes (*see Glass, Chemists; see Glass, Chemical*)

Burette Clamps

Ill., Chicago

*Stoelting Co., C. H., 3037 Carroll Ave.

Burette Stands

Pa., Carbondale

Griebel Instrument Co.

Burners

N. Y., Brooklyn

Hauck Mfg. Co., 101-113 Eleventh St.

Burners, Argand

Mich., Detroit

Precision Instrument Co., Fort and Wayne Sts.

Burners, Assay

Cal., Los Angeles

Calkins Co., 348 N. Main St.

Mo., St. Louis

*Heil Chemical & Mfg. Co., 216 S. 4th St.

Burners, Atmospheric

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave

Burners, Blast

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave

Burners, Brazing

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave

N. Y., New York City

Quigley Furnace Specialties Co., Church St.

Ohio, Cincinnati

Macleod Co., 2225 Bogen St

Burners, Bunsen

Conn., Stamford

Stamford Gas Stove Co.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

Deegan Supply Co., 116-122 W. Illinois St.

*Stoelting Co., C. H., 3037 Carroll Ave. Illinois Malleable Iron Co., 1801 Di-versey Blvd.

Iowa, Cedar Rapids

Johnson Gas Appliance Co., 520 E. Ave. W.

Mass., Boston

*Knott Apparatus Co., L. E., Cambridge "A" Station

Mich., Detroit

Detroit Heating & Lighting Co.

N. J., Newark

Newark Brass Works, 20 Lawrence Ave.

N. Y., Buffalo

Buffalo Dental Mfg. Co., 587 Main St.

Burners, Bunsen—cont.*N. Y., Brooklyn*

Improved Appliance Co., 413 415 Kent Ave.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 18th St.

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Pa., Erie

Advance Mfg. Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Burners, Efficiency Gas Pipe*N. Y., New York City*

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Burners, Felt Singing*N. Y., Brooklyn*

Hauck Mfg. Co., 101 113 Eleventh St.

Burners, Gas*Cal., San Francisco*

Johnson Co., S. T., 1337 Mission St.

Conn., New Haven

Oven Equipment & Mfg. Co.

*Ill., Chicago**Central Scientific Co., 460 E. Ohio St.
Degan Supply Co., 116 122 W. Illinois St.

*Schaar & Co., 1025 S. State St.

Ill., Rockford

Eclipse Fuel Engineering Co.

Iowa, Cedar Rapids

Johnson Gas Appliance Co., 520 E. Ave. W.

Mich., Detroit

Detroit Heating & Lighting Co.

N. Y., New York City

American Gas Furnace Co., 21 26 John St.

Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Quigley Furnace Co., 25 Church St.

Selas Co., 521 W. 23d St.

Tirrill Gas Machine Lighting Co., 103 Park Ave.

N. Y., Syracuse

Syracuse Industrial Gas Co., 183 S. Salina St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

Gwynn Gas Burner & Engineering Co., 713-714 Empire Bldg.

*Scientific Materials Co., 711-719 Forbes St.

Burners, Gasoline*Cal., San Francisco*

Braun-Knecht-Heimann Co., 584 Mission St.

Mich., Detroit

Detroit Heating & Lighting Co.

Ohio, Canton

Sun Vapor & Street Light Co.

Burners, Incandescent, Gasoline*N. Y., New York City*

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Burners, Incinerating*N. Y., Brooklyn*

Hauck Mfg. Co., 101 113 Eleventh St.

Burners, Laboratory (see Burners, Bunsen)**Burners, Oil***Cal., Fresno*

Gearhart Oil Burner Co., 1314 Eye St.

Cal., San Francisco

Braun-Knecht-Heimann Co., 584 Mission St.

Johnson Co., S. T., 1337 Mission St.

Ill., Chicago

National Supply Co., 416 W. Grand Ave.

Schaar & Co., 1025 S. State St.

Weller Mfg. Co., 1820-1856 N. Kostner Ave.

Md., Baltimore

Meade & Co., Richard K., 608 Law Bldg.

Mass., Springfield

Gilbert & Barker Mfg. Co.

*N. Y., Brooklyn*Hauck Mfg. Co., 101-113 Eleventh St.
Improved Appliance Co., 413-415 Kent Ave.*N. Y., Long Island City*

Anthony Co., 138 West Ave.

N. Y., New York City

Best, Inc., W. N., 11 Broadway

Babcock & Wilcox Co., 85 Liberty St.

Metals Production Equipment Co., 105 W. 40th St.

Mine & Smelter Supply Co., 42 Broadway

*Palo Co., 90 Maiden Lane

Burners, Oil—cont.*Ohio, Cincinnati*

Macleod Co., Bogen St.

Pa., Philadelphia

Messer Mfg. Co., 121 N. 7th St.

Monarch Mfg. Works, 3129 Emery St.

Pa., Pittsburgh

Tate, Jones & Co., Inc.

Burners, Powdered Coal*Ill., Chicago*

Stroud & Co., E. H., 928-934 Fullerton Ave.

N. Y., New York City

Quigley Furnace Specialties Co., 25 Church St.

Md., Baltimore

Meade & Co., Richard K., 608 Law Bldg.

Burners, Sulphur*Ga., Atlanta*

Mutual Foundry & Machine Co.

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave.

N. Y., Glen Falls

Glen Falls Machine Works

N. Y., New York City

Kalbpery Corporation, 31 Union Square, W.

Pratt Engineering & Machine Co.

Ohio, Cincinnati

MacLeod Co., 2223 Bogen St

Pa., Bethlehem

Bethlehem Foundry & Machine Co.

Wis., Appleton

Valley Iron Works Co.

Burettes, Displacement*N. Y., Rochester*

Will Corporation

Burettes, Gay Lussac*N. Y., Rochester*

Will Corporation

Bushings, Brass*Ill., Chicago*

Caldwell & Son Co., H. W., 17th and Western Ave.

Link Belt Co., W. 39th and Stewart Ave.

Ohio, Cincinnati

Lunkenheimer Co.

Bushings, Bronze (see Bushings, Brass)**Bushings, Cast Iron***N. J., Newark*

U. S. Cast Iron Pipe & Foundry Co.

By-Product Machinery*Md., Baltimore*

Bartlett, Hayward Co.

N. Y., Buffalo

Devine Co., J. P.

By-Product Recovery Plants*Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Bartlett Hayward Co.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

N. Y., Buffalo

Zarembo Co., D. R., Morgan Bldg.

N. Y., New York City

Hercules Engineering Corporation, 501 Fifth Ave.

Kalbpery Corporation, 31 Union Square, W.

Ohio, Cleveland

Gas Machinery Co., 1900 Euclid Ave.

Cabinets, Blue Print*Ill., Aurora*

Lyon Metallic Mfg. Co.

N. Y., Rochester

Yawman & Erbe Mfg. Co.

Wis., Two Rivers

Hamilton Mfg. Co.

Cabinets, Chemical*Ind., Indianapolis*

Schwartz Sectional System

Mich., Allegan

Oliver & Co.

N. Y., Brooklyn

Lutz Mfg. Co., 162 Albany Ave.

N. Y., New York City

Bogert & Hopper, 162 William St.

Ohio, Dayton

Reynolds & Reynolds Co., The

Cabinets, Laboratory*Ind., Indianapolis*

Schwartz Sectional System

Cabinets, Metal*Mass., Framingham*

Manufacturing Equipment & Engraving Co.

Mich., Grand Rapids

Terrell's Equipment Co.

Cabinets, Reagents*Ind., Indianapolis*

Schwartz Sectional System

Cabinets, Steel (*see also Cabinets, Filing*)*Ill., Aurora*

Lyon Metallic Mfg. Co.

N. Y., New York City

Hospital Supply Co., 53 5th Ave.

Pa., Philadelphia

Large-Dail Mfg. Co., 114 N. 13th St.

Cabinets, Steel Storage*Ill., Aurora*

Allsteel Equipment Co.

Caissons, Steel*N. Y., Buffalo*

Buffalo Foundry & Machine Co.

N. Y., New York City

Dover Boiler Works, 30 Church St.

Stevens Bros., Singer Bldg.

Pa., Coatesville

Coatesville Boiler Works

Pa., Sharon

Petroleum Iron Works Co.

Calciners, Rotary*Ohio, Cleveland*

Cummer & Son Co., F. D., 413 The Arcade

Calcium Acetate Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. Y., New York City

Hercules Engineering Corporation, 501 Fifth Ave

N. Y., Buffalo

Zaremba Co., D. R., Morgan Bldg.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Calibrating Apparatus*N. Y., Rochester*

Will Corporation

Calorographs*Mich., Detroit*

Precision Instrument Co.

Calorimeters*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A, 52-56 W. Kinzie St.

Deegan Supply Co., 116 122 W. Illinois St.

Ellison, Lewis M., 214 W. Kinzie St.

Sargeant Steam Meter Co., 1902 N. California Ave.

Ill., East Moline

Standard Calorimeter Co.

Mass., Boston

Crosby Steam Gauge & Valve Mfg. Co., 38 Central Ave.

American Steam Gauge & Valve Mfg. Co.

*Emerson Apparatus Co., 251 Causeway St.

Mich., Detroit

Precision Instrument Co., Fort and Wayne Sts.

Mo., St. Louis

*Heil Chemical Co., Henry, 216 S. 4th Ave.

N. Y., Brooklyn

Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.

N. Y., New York City

American Meter Co., 561 W. 47th St.

*Eimer & Amend, 3d Ave., 18th to 19th St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Sarco Co., Inc., 237 Broadway

N. Y., Rochester

Bausch & Lomb Optical Co.

Ohio, Dayton

Smith Gas Engineering Co.

Ohio, Lexington

*Smith Gas Engineering Co.

Pa., Philadelphia

Queen-Gray Co., 616-620 Chestnut St.

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 717 Forbes Ave.

Calorimeters, Gas, Recording*Mich., Detroit*

Precision Instrument Co., Fort and Wayne Sts.

Ohio, Dayton

Smith Gas Engineering Co.

Cameras, Photomicrographic*N. Y., Binghamton*

AnSCO Co.

N. Y., Rochester

Bausch & Lomb Optical Co.

Eastman Kodak Co.

Can Filling Machinery*Ill., Chicago*

Sprague Canning Machinery Co., 220-224 N. Wabash Ave.

Mich., Saginaw

Nickle, Frank H., 1321 N. Bond St.

N. J., Newark

Automatic Weighing Machine Co., 134 Commerce St.

N. Y., Buffalo

Crandall Can Filler Machine Co., 1394 Niagara St.

Can Machinery*Ill., Chicago*

American Can Co., 104 S. Michigan Ave.

Sprague Canning Machine Co., 220 N. Watson St.

Mo., St. Louis

Brecht Co., 1250-1256 Cass Ave.

N. Y., Brooklyn

Bliss Co., E. W., 17 John St.

Ohio, Elyria

Elyria Enameled Products Co.

Can Making Machinery*Md., Baltimore*

American Compressor & Pump Co., 801-805 E. Pratt St.

N. Y., Brooklyn

Leffler & Co., Chas., 49-73 Clymer St.

Cans, Oil, Safety, Non Explosive*Ill., Chicago*

Justrite Mfg. Co., 2061-2081 Arthropport Ave.

Cans, Oily Waste, Automatic*Ill., Chicago*

Justrite Mfg. Co., 2061-2081 Arthropport Ave.

Capsules*Col., Golden*

Herold China & Pottery Co.

Mich., Detroit

Parke, Davis & Co.

N. Y., New York City

Behrend, F., 54 Front St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Capsules, Alundum*Mass., Worcester*

Norton Co., New Bond St.

Capsule Filling Machinery*Mich., Detroit*

Colton Co., Arthur, 782 E. Jefferson Ave.

Pa., North Philadelphia

Stokes Machine Co., F. J.

Carbide Lights*Md., Baltimore*

Milburn Co., Alexander, 1420 28 W. Baltimore St.

Carbonators*Ill., Chicago*

Liquid Carbonic Co.

Magnus Sons Co., 327 W. Randolph St.

N. Y., Buffalo

Devine Co., J. P., 1372 Clinton St.

Wis., Grand Rapids

American Carbonic Machinery Co.

Carbon Burning Outfits*Mass., Boston*

Waterhouse Welding Co.

Carbonic Acid Determination Apparatus*N. Y., New York City*

Bernard & Co., F. J., 70 Murray St.

Carbonic Acid Gas Machinery*Ill., Chicago*

Liquid Carbonic Co.

Md., Baltimore

Meade & Co., Richard K., 608 Law Bldg.

Pa., Carbondale

Carbondale Machine Co.

Wis., Grand Rapids

American Carbonic Machinery Co.

Carbonizing Machinery*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

N. Y., New York City

American Gas Furnace Co., 24 John St.

Ohio, Cleveland

Bartlett & Snow Co., C. O., French and Columbus Sts.

Pa., Philadelphia

Philadelphia Drying Machinery Co.

Philadelphia Textile Machinery Co. 6th St. and Tabor Road

Carborundum Brick, "Silcar Brand"*N. J., Perth Amboy*

Didier-March Co.

Carboy Inclinator*Minn., Minneapolis*

McCord & Co., Horace M., Exchange Bldg.

N. Y., New York

*Eimer & Amend, 3d Ave., 18th to 19th St.

Carboys*Ill., Alton*

Illinois Glass Co.

N. J., Bridgeton

Cumberland Glass Mfg. Co.

N. Y., Corning

Corning Glass Works.

Pa., Philadelphia

Whitall-Tatum Co., 410 Race St.

Pa., Pittsburgh

MacBeth-Evans Glass Co.

Carlsruhe*N. Y., New York City*

Rhodes & Co., James H., 162 William St.

Car Pullers*Ill., Aurora*

Stephens Adamson Mfg. Co.

Carriers (see Belts, Buckets, Cars, Conveying, Machinery, Conveyors)**Cars, Annealing Furnace***Ill., Harvey*

Whiting Foundry Equipment Co.

N. Y., New York City

Easton Car & Construction Co., 30 Church St

Cars, Charging*Ill., Harvey*

Whiting Foundry Equipment Co.

N. Y., New York City

Easton Car & Construction Co., 30 Church St

Cars, Core Oven*Ill., Harvey*

Whiting Foundry Equipment Co.

N. Y., New York City

Easton Car & Construction Co., 30 Church St

Ohio, Cleveland

Lakewood Engineering Co.

Pa., Koppel

Orenstein-Arthur Koppel Co

Cars, Drying*N. Y., New York City*

Turl Iron & Car Co., Inc., 50 Broad St.

Cars, Dump*Cal., Los Angeles*

Llewellyn Iron Works, N. Main and Redondo Sts.

Del., Wilmington

Walker & Elliott, Inc.

Ill., Aurora

Western Wheeler Scraper Co.

Ill., Chicago

Austin Mfg. Co., Manhattan Bldg.

Central Locomotive & Car Works, 345 S Dearborn St.

National Dump Cart Co., 80 E. Jackson Blvd.

Sackett Screen & Chute Co., H. B. 1681 Elston Ave.

Ill., Harvey

Whiting Foundry Equipment Co.

Ind., Michigan City

Haskell & Barker Car Co.

Mass., East Boston

Mead-Morrison Mfg. Co., Prescott and Orleans Sts.

Mich., Detroit

Russell Wheel & Foundry Co.

Mo., St. Louis

American Car & Foundry Co., 915 Olive St.

St. Louis Car Co., 8000 N. Broadway

Mo., Springfield

United Iron Works

N. Y., Livingston, S. I.

Hunt Co., C. W.

N. Y., Long Island City

Stuebner Iron Works, G. L., 13th and Vernon Ave.

N. Y., New York City

Machinery Utilities Co., Inc., 501 5th Ave.

Ohio, Bucyrus

American Clay Machinery Co., 201 E. Warren St.

Ohio, Cleveland

Atlas Car & Mfg. Co., Ivanhoe Road

Lakewood Engineering Co., Station "G"

Ohio, Columbus

Kilbourne & Jacobs Mfg. Co.

Ralston Steel Car Co.

Ohio, Youngstown

Youngstown Car & Mfg. Co.

Pa., Allentown

Traylor Engineering & Mfg. Co.

Pa., Easton

Easton Car & Construction Co., 200 4th St.

Pa., Koppel

Orenstein-Arthur Koppel Co.

Pa., Pittsburgh

Clark Car Co., Oliver Bldg.

Pressed Steel Car Co., Farmer's Bank Bldg

Summers Steel Car Co., Oliver Bldg.

Wash., Seattle

Seattle Car & Foundry Co., Alaska Bldg.

Cars, Industrial*Ill., Harvey*

Whiting Foundry Equipment Co.

Mich., Detroit

Northern Engineering Works, 14 Chene St.

Mo., St. Louis

American Car & Foundry Co., 915 Olive St

N. J., Hoboken

Tidewater Iron Works, 725 Jefferson St.

N. Y., Livingston, S. I.

Hunt Co., C. W.

N. Y., Long Island City

Steubner Iron Works, G. L., Hancock St. and Vernon Ave.

Cars, Industrial—cont.*N. Y., New York City*

American Car & Foundry Co., 165
Broadway

Guarantee Construction Co., 90 West
St.

Machinery Utilities Co., Inc., 501 5th
Ave.

Ohio, Cleveland

Lakewood Engineering Co., Station
"G"

Wellman-Seaver-Morgan Co., 7004
Central Ave.

Pa., Easton

Easton Car & Construction Co., 200
4th St.

Pa., Koppel

Orenstein-Arthur Koppel Co.

Pa., Pittsburgh

Pressed Steel Car Co., Farmer's Bank
Bldg.

Tenn., Knoxville

Oliver Mfg. Co., Wm. J.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Cars, Open Hearth Charging*N. Y., New York City*

Easton Car & Construction Co., 30
Church St.

Ohio, Cleveland

Lakewood Engineering Co.

Cars, Ore*Colo., Denver*

Colorado Iron Works Co., 33d and
Wynkoop Sts.

Ill., Chicago

Austin Mfg. Co., 910 S. Michigan Ave.

Ind., Michigan City

Haskell & Barker Co.

Mich., Lansing

Lansing Co.

N. Y., New York City

American Car & Foundry Co., 165
Broadway

Ohio, Cleveland

Lakewood Engineering Co.

Pa., Easton

Easton Car & Construction Co.

Pa., Koppel

Orenstein-Arthur Koppel Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Cars, Platform (see Cars, Industrial)**Cars, Railway***Ala., Anniston*

Kilby Car & Foundry Co.

Del., Wilmington

Harlan & Hollingsworth Corp.

Ill., Chicago

Central Locomotive & Car Works, 345
S. Dearborn St.

Chicago Bridge & Iron Works, 37 W.
Van Buren St.

Chicago Steel Car Co., 156th and Hal-
stead Aves.

Pullman Company, Pullman Bldg.

Western Steel Car & Foundry Co., 37
W. Van Buren St.

Ind., Michigan City

Haskell & Barker Car Co.

Iowa, Bettendorf

Bettendorf Co.

Mich., Three Rivers

Sheffield Car Co.

Mo., St. Louis

American Car & Foundry Co., 915
Olive Bldg.

Ohio, Cleveland

Atlas Car & Mfg. Co., Ivanhoe Road

Ohio, Columbus

Ralston Steel Car Co.

Ohio, Dayton

Barney & Smith Car Co.

Pa., Erie

Erie Car Works, 17th and Raspberry
Sts.

Pa., Philadelphia

Brill Co., J. G., 62d and Woodland
Ave.

Cambria Steel Co., Widener Bldg.

Pa., Pittsburgh

Pressed Steel Car Co., Farmer's Bank
Bldg.

Pa., South Bethlehem

Bethlehem Steel Co.

Va., Richmond

Tredegar Co.

Cars, Skip*N. Y., New York City*

Easton Car & Construction Co., 30
Church St.

Ohio, Cleveland

Lakewood Engineering Co.

Cars, Slag*Cal., Los Angeles*

Llewellyn Iron Works

Colo., Denver

Colorado Iron Works Co., 33d and
Wynkoop Sts.

Ill., Harvey

Whiting Foundry Equipment Co.

Pa., Easton

Easton Car & Construction Co.

Cars, Sterilizing*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Cars, Tank*Ill., Chicago*

Chicago Bridge & Iron Works

Ind., Michigan City

Haskell & Barker Car Co.

Iowa, Davenport

Bettendorf Co.

Mo., St. Louis

American Car & Foundry Co., 915 Olive Bldg.

N. J., Jersey City

Koven & Bro., L. O., 200 Ogden Ave.

N. Y., New York City

Aetna Steel Products Co., Inc., 40 Church St.

American Car & Foundry Co., 165 Broadway

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Ohio, Columbus

Ralston Steel Car Co.

Pa., Philadelphia

Cambria Steel Co., Widener Bldg.

Pa., Pittsburgh

Pressed Steel Car Co., Farmer's Bank Bldg.

Pa., Sharon

Pennsylvania Tank Car Co.

Carts, Benzine*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Carts, Fertilizer*Mich., Lansing*

Lansing Co

Pa., Harrisburg

Jackson Mfg. Co.

Tenn., Chattanooga

Chattanooga Wheelbarrow Co.

Carts, Industrial*Ill., Bradley*

Bradley Machine Works

Ind., South Bend

South Bend Chilled Plow Works

Studebaker Corp.

Mass., Boston

Ames Plow Co., Quincy Hall

Mich., Lansing

Lansing Co.

Ohio, Ashland

Myers & Bro., F. E., 900 Orange St.

Ohio, Columbus

Kilbourne & Jacobs Mfg. Co.

Ohio, Toledo

Gendron Wheel Co.

Tenn., Chattanooga

Chattanooga Wheelbarrow Co.

Carts, Matte*Colo., Denver*

Colorado Iron Works Co., 33d and Wynkoop Sts.

Carts, Slag (*see Cars, Slag*)**Case Hardening***Conn., Bridgeport*

Bridgeport Steel Treating Co.

Conn., Bristol

Barnes, Wallace Co., 118 Wallace Ave.

Dunbar Bros. Co., 76 South St.

Ill., Chicago

Cassady-Fairbank Mfg. Co., 6126 S. La Salle Ave.

Mich., Detroit

Briscoe Mfg. Co., 1443 Woodward Ave.

N. J., Jersey City

Drop Forging Co., 299 West Side Ave.

N. Y., Brooklyn

Williams & Co., J. H., 73 Richards St.

N. Y., Buffalo

Crosby Co., 137 Pratt St.

N. Y., New York City

Frasse & Co., Inc., Peter A., 417 Canal St.

N. Y., Utica

Bossert Corp., The

Case Hardening Machines*N. Y., New York City*

American Gas Furnace Co., 24 John St.

Cases, Bottle*Mass., Gloucester*

Perkins Box Co.

Ohio, Defiance

Defiance Box & Coop Co.

Wis., Marinette

Marinette & Menominee Box Co.

Casing, Steam Pipe, Wooden*Cal., San Francisco*

Pacific Tank & Pipe Co., 318 Market St.

Casks (*see also Barrels, Tanks*)*Md., Baltimore*

Baltimore Cooperage Co.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Casseroles*Col., Golden*

Herold China & Pottery Co.

Ill., Chicago

Daigger & Co., A., 52-56 W. Kinzie St.

N. J., Haddonfield

Wingender & Bro., Chas.

N. Y., Corning

Corning Glass Works

N. Y., New York City

Durrion Castings Co., 90 West St.

*Eimer & Amend, 205-211 3d Ave.

General Ceramics Co., 50 Church St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Casseroles—cont.

- N. Y., Rochester*
Will Corporation
- Ohio, Cambridge*
Guernesey Earthenware Co.
- Ohio, Zanesville*
Ohio Pottery Co., Dearborn St.
- Ohio, Sebring*
Limoges China Co.
- Pa., Carbondale*
Griebel Instrument Co.
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.
- Pa., Pittsburgh*
Scientific Materials Co., 711-719 Forbes St.

Casseroles, Pyrex Glass

- N. Y., Corning*
Corning Glass Works

Castings, Acid Proof

- N. Y., New York City*
Akerlund & Semmes, Inc., 17 Battery Pl.
- Ohio, Cleveland*
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
- Pa., Pittsburgh*
Rosedale Foundry & Machine Co., Columbus and Preble Ave.

Castings, Acid Resistant

- Ga., Atlanta*
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.
- Ill., Chicago*
Crane Co.
- Md., Baltimore*
Bartlett-Hayward Co.
- Mass., Fall River*
Scott & Co., Ernest
- N. J., Harrison*
Driver Harris Co., Railroad Ave
- N. J., Newark*
Acid Proof Iron Products Co., 47 Hermon St.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St
- N. Y., New York City*
Duriron Castings Co., 90 West St.
Green Fuel Economizer Co., 90 West St.
- Jacoby, Henry E.
Pratt Engineering & Machinery Co.
Stevens Bros., 928 Singer Bldg.
- N. Y., Niagara Falls*
Titanium Alloy Mfg. Co.
- N. Y., Rockville Center, Long Island*
Nassau Valve & Pump Co., Inc.
- Ohio, Cincinnati*
Lunkenheimer Co., Beekman and Waverly Sts.
- Pa., Coatesville*
Coatesville Boiler Works
- Pa., Fullerton*
Fuller Lehigh Foundry Co.
- Pa., Philadelphia*
Cramp & Sons Ship & Engine Building Co., Wm.
- Pa., South Bethlehem*
Bethlehem Foundry & Machine Co.
- Pa., Williamsport*
Valley Iron Works

Castings, Air Furnace

- Conn., Branford*
Malleable Iron Fittings Co.
- Conn., Naugatuck*
Eastern Malleable Iron Co.
- Mass., Springfield*
Quigley Furnace & Foundry Co.
- N. J., Paterson*
Watson Machine Co.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co., 26 Winchester Ave.
- N. Y., Syracuse*
Syracuse Malleable Iron Works
- Ohio, Youngstown*
Todd Co., The Wm.
Youngstown Foundry & Machine Co.
- Pa., Chambersburg*
Chambersburg Engineering Co.
- Pa., Fullerton*
Fuller Lehigh Foundry Co
- Pa., Philadelphia*
Chester Steel Castings Co., 407 Sansom St.
- Pa., Pittsburgh*
Garrison Foundry Co., 901 Bingham St.
Mesta Machine Co., Oliver Bldg.
- Pa., Reading*
Reading Iron Co.
- Wis., Milwaukee*
Wisconsin Malleable Iron Co., 90 S. Bay St.

Castings, Aluminum

- Conn., New Britain*
N 1th & Judd Mfg. Co.
- Conn., Torrington*
Turner & Seymour Mfg. Co.
- Conn., Waterbury*
Waterbury Brass Goods Corp.
- Ill., Chicago*
Adams & Wesley Co. Ontario and Franklin Sts.
Chicago Aluminum Castings Co., 2647 Ogden Ave.
Chicago Malleable Castings Co., W. 120th and Center Ave.

Castings, Aluminum—cont.

- Md., Baltimore*
Maryland Brass & Metal Works, Guilford and Girard Aves.
- Mass., Worcester*
Reed Prentice Co.
- Mich., Detroit*
General Aluminum & Brass Mfg. Co., East Grand Blvd. and St. Aubin St.
- N. J., Arlington*
Lovell Co., F. H.
- N. J., Newark*
Aluminum Goods Mfg. Co.
- Ohio, Cincinnati*
Lunkenheimer Co., Beekman and Waverly Sts.
- Ohio, Cleveland*
Aluminum Castings Co., 6205 Carnegie Ave.
- Ohio, Dayton*
Buckeye Iron & Brass Works
- Pa., Philadelphia*
Cambria Steel Co., Widener Bldg.
Midvale Steel Co., Widener Bldg.
- Pa., Pittsburgh*
Aluminum Co. of America
Pittsburgh Brass Mfg. Co., 3155 Pennsylvania Ave.
- Pa., South Bethlehem*
Bethlehem Steel Co.

Castings, Aluminum Bronze Die

- N. Y., Niagara Falls*
Titanium Alloy Mfg. Co.

Castings, Brass

- Cal., Los Angeles*
Acme Brass Foundry Co., 860 N. Main St.
- Lelwellyn Iron Works, N. Main and Redondo Sts.
- Conn., Ansonia*
Ansonia Mfg. Co., River Road
- Conn., Bristol*
Bristol Brass Co.
- Conn., Meriden*
Miller & Co., Edw.
- Conn., Middletown*
Wilcox, Crittenden & Co., Inc.
- Conn., New Britain*
North & Judd Mfg. Co.
- Conn., New Haven*
Peck Bros. & Co., The
- Conn., Torrington*
Turner & Seymour Mfg. Co.
- Conn., Waterbury*
American Brass Co.
Scovill Mfg. Co.
Waterbury Brass Goods Corp.
- Del., South Wilmington*
Hilles & Jones Co.
- Ga., Atlanta*
Pratt Engineering & Machinery Co.
- Ill., Chicago*
Adams & Westlake Co., Ontario and Franklin Sts.
Federal Brass Works, 3100 S. Kenzie St.
Griffin Wheel Co., 332 S. Michigan Ave.
Illinois Engineering Co., Racine Ave. and 21st St.
Imperial Brass Mfg. Co., 524 S. Racine Ave.
- Ind., Indianapolis*
Keyless Lock Co., 1401 Newman St.
Nurdyke & Marmon Co., 1290 Kentucky Ave.
- Iowa, Burlington*
Murray Iron Works Co.
- Ky., Louisville*
Ahrens & Ott Mfg. Co., 325 W. Main St.
- Maine, Bath*
Bath Iron Works, Ltd.
- Md., Baltimore*
Codd Co., E. J., 700 S. Caroline St.
Maryland Brass Metal Works, Guilford and Girard Aves.
Poole Engineering & Machinery Co., Woodbury
- Mass., Boston*
American Tool & Machine Co., 10 High St.
McCallan Co., 11 Macallen St.
- Mass., Worcester*
Rice Barton & Fales Machine & Iron Co.
- Mich., Detroit*
Detroit Brass Works, Brooklyn and Belt Line
General Aluminum & Brass Castings Co., Grand Blvd. and St. Aubin St.
- Mich., Three Rivers*
Sheffield Car Co.
- Mo., St. Louis*
American Car & Foundry Co., 915 Olive St.
Moore-Jones Brass & Metal Co., 3144 N. Broadway
- Mo., Springfield*
United Iron Works
- N. J., Arlington*
Lovell & Co., F. H.
- N. Y., Brooklyn*
Atlantic Smelting & Refining Works, 36-42 Delavan St.
Bliss Co., E. W., 19 John St.
Doehler Die-Castings Co., 9th and Court Sts.
- N. Y., Buffalo*
Lumen Bearing Co., 1155 Sycamore St.
Titanium Alloy Mfg. Co.

Castings, Brass—cont.*N. Y., New York City*

American Brass Forging Co., Inc., 168 Southern Blvd.
 Bronze Metal Co., 30 Church St.
 Burhorn Co., Edwin, 71 Wall St.
 Gerdes & Co., Inc., 30 Church St.
 Henry-Bonnard Bronze Co., 20 Exchange Pl.
 Magnus Co., The, 111 Broadway
 Metals Production Equipment Co., 165 Broadway
 Roos' Sons, August, 429 E. 91st St.
 Wilfert Co., John, 259 Broadway

N. Y., Niagara Falls

Titanium Alloy Mfg. Co.
 Titanium Bronze Co., The

Ohio, Alliance

Morgan Engineering Co.

Ohio, Cincinnati

American Copper & Brass Works, 612 E. Front St.
 American Valve & Meter Co., 2833 Spring Grove Ave.
 Crane & Breed Mfg. Co., 1227 W. 8th St.
 Lunkenheimer Co., Beekman and Waverly Sts.
 Van Dusen Co., E. W., 1428 E. 2d St.

Ohio, Cleveland

Aluminum Castings Co., 6205 Carnegie Ave.
 Bartlett & Snow Co., C. O., 1040 French St.
 Buckeye Brass & Mfg. Co., 1807 Columbus Road

Ohio, Dayton

Buckeye Iron & Brass Works

Ohio, Youngstown

Todd Co., Wm.

Pa., Chester

Wetherill & Co., Robert

Pa., Philadelphia

Ajax Metal Co., 48 Richmond St.
 American Manganese Bronze Co., Rhawn and Hegeman Sts.
 Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts.
 North American Smelting Co., 9th and Thompson Sts.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.
 Damascus Bronze Co., 928 South Ave.
 Keystone Bronze Co., 39th St. and A. V. R. R.
 Lawrenceville Bronze Co., 3036 Penn Ave.
 Pittsburgh Valve Foundry & Construction Co.

Pa., Scranton

Everhart Brass Works

Pa., South Bethlehem

Bethlehem Steel Co.

Wash., Seattle

Seattle Brass Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.
 Wisconsin Foundry Co., 1138 32d St.

Castings, Bronze (see Castings, Brass)**Castings, Caustic (see Castings, Chemical)****Castings, Chemetal**

N. Y., L. I., Rockville Center
 Nassau Valve & Pump Co., Inc.

Castings, Chemical*Ala., Birmingham*

American Cast Iron Pipe Co.

Ga., Atlanta

Mutual Foundry & Machine Co.
 Pratt Engineering & Machine Co.

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Jones Foundry & Machinery Co., W. A., 4404 W. 12th St.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

Mich., Detroit

Russell Wheel & Foundry Co.

Mich., Muskegon

Muskegon Boiler Works

N. J., Carteret

Wheeler Condenser & Engineering Co.

N. J., East Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

N. J., Harrison

Driver-Harris Wire Co.

N. J., Jersey City

Koven & Bro., L. O., 200 Ogden Ave.

N. J., Newark

Acid Proof Iron Products Co., Inc., 141 Hermon St.

N. Y., Buffalo

Buffalo Forge Co
 Buffalo Foundry & Machine Co., 26 Winchester St.
 Devine Co., J. P., 1372 Clinton St.
 Sowers Mfg. Co., 1300 Niagara St.
 Farrar & Trefts, 47 Perry St.

Castings, Chemical—cont.*N. Y., New York City*

American Car & Foundry Co., 165 Broadway

Dover Boiler Wrks, 50 Church St.

Duriron Castings Co., 90 West St.

Jacoby, Henry E., 95 Liberty St.

Metals Production Equipment Co., 165 Broadway

Roos' Sons, August

Stevens Brothers, 928 Singer Bldg.

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc

Ohio, Cincinnati

Day Co., J. H.

Lunkenheimer Co., Beekman and Waverly Sts.

Ohio, Cleveland

Steel Improvement & Forge Co., 5000 Winsor Ave.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Catasauqua

Lehigh Car, Wheel & Axle Works

Pa., Coatesville

Coatesville Boiler Works

Pa., Philadelphia

Chester Steel Castings Co., 407 Sansom St.

Midvale Steel Co., Widener Bldg.

Oat & Sons, Joseph, 230 Quarry St.

Stokes Machine Co., F. J.

Wood & Co., R. D., 400 Chestnut St.

Pa., Pittsburgh

Aluminum Co. of America

Edgewater Steel Co.

Marshall Foundry Co., 28th and R.R.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Bethlehem Steel Co.

Pa., Williamsport

Valley Iron Works

Va., Lynchburg

Lynchburg Foundry Co.

Castings, Chemical, Acid Resistant Bronze*Pa., Philadelphia*

Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Castings, Chemical, Special Mixture Metals*Pa., Philadelphia*

Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Castings, Copper (see also Castings, Brass)*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave

N. Y., Buffalo

Buffalo Forge Co.

Buffalo Foundry & Machine Co.

Zarembo Co.

N. Y., New York City

American Metal Co., Ltd., 61 Broadway

Columbian Bronze Corporation, 50 Church St.

Ohio, Cincinnati

Lunkenheimer Co.

Ohio, Cleveland

Tyler Co., W. S.

Pa., Pittsburgh

Keystone Bronze Co.

Pittsburgh Valve Foundry & Construction Co.

Pa., South Bethlehem

Bethlehem Steel Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Castings, Furnace, Iron*Pa., Fullerton*

Fuller-Lehigh Co.

Castings, Iron*Pa., Fullerton*

Fuller-Lehigh Co.

Castings, Iron, Chilled*Pa., Fullerton*

Fuller-Lehigh Co.

Castings, Iron, Malleable*Conn., Branford*

Branford Iron Fittings Co.

Conn., Bridgeport

Bridgeport Malleable Iron Works

Conn., New Britain

North & Judd Co.

Vulcan Iron Works

Ill., Chicago

Illinois Malleable Iron Co., 1804 Diversey Blvd.

Link Belt Co., W. 39th St. and Stewart Ave.

Ind., Indianapolis

National Malleable Castings Co.

Md., Baltimore

Bartlett-Hayward Co.

N. Y., Buffalo

Acme Steel & Malleable Iron Works

N. Y., New York City

American Car & Foundry Co., 165 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Pa., Erie

Jarecki Iron Co.

Wis., Milwaukee

Chain Belt Co.

Castings, Manganese Bronze

N. Y., New York City
Columbian Bronze Corporation, 50
Church St.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Philadelphia
Ajax Metal Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Con-
struction Co.

Castings, Manganese Steel

Ill., Chicago
American Manganese Steel Co., Mc-
Cormick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Castings, Monel Metal

N. J., Bayonne
Bayonne Casting Co.
N. Y., Buffalo
Buffalo Forge Co.
Ohio, Cincinnati
Lunkenheimer Co.

Castings, Nichrome (see also *Cast-
ings, Acid Resistant*)**Castings, Nickel**

Ill., Chicago
American Steel Foundries, McCormick
Bldg.
N. J., Bayonne
Bayonne Casting Co.
N. Y., Buffalo
Buffalo Forge Co.
Pa., Pittsburgh
Williams & Co.
Pa., South Bethlehem
Bethlehem Steel Co.

**Castings, Resistant to High
Temperatures**

Ala., Birmingham
American Cast Iron Pipe Co.
N. J., East Burlington
U. S. Casting Iron Pipe & Foundry
Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Pa., Philadelphia
Chester Steel Castings Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Castings, Steel, Crucible

Cal., Los Angeles
Llewellyn Iron Works

Cal., San Francisco
Bethlehem Shipbuilding Corporation
Conn., Branford
Malleable Iron Fittings Co.
Conn., New Haven
American Steel & Wire Co.
Ill., Chicago
American Steel Foundries, McCormick
Bldg.
American Steel & Wire Co.
Chicago Steel Foundry Co.
Crane Co., 830-840 S. Michigan Ave.
Link Belt Co., W. 39th and Stewart
Ave.

Iowa, Bettendorf
Bettendorf Co.
Mich., Detroit
Detroit Steel Casting Co.
Minn., Minneapolis
Western Crucible Steel Castings Co.
N. J., Bayonne
Bayonne Steel Casting Co.
N. J., Chrome
Chrome Steel Works
N. Y., Buffalo
Buffalo Forge Co.
Buffalo Foundry & Machine Co.
Zaromba Co.
N. Y., New York City
American Bridge Co., 30 Church St.
Worthington Pump & Machinery Cor-
poration, 113 Broadway
Ohio, Alliance
Morgan Engineering Co.
Reeves Bros. Co.
Ohio, Middletown
American Rolling Mill Co.
Pa., Blackenside
Allegheny Steel Co.
Pa., Braddock
Braddock Steel Co.
Pa., Chester
Wetherill & Co., Robert
Pa., Coatsville
Coatesville Boiler Works
Pa., Johnstown
Lorain Steel Co.
Pa., Philadelphia
Chester Steel Co., Oliver Bldg.
Pa., Pittsburgh
Duquesne Steel Co.
Pittsburgh Valve Foundry & Con-
struction Co.
Pressed Steel Car Co.
Union Steel Castings Co.
Pa., Reading
Reading Steel Foundry Co.
Pa., Sharon
Sharon Foundry Co.
Pa., South Bethlehem
Bethlehem Steel Co.
Wis., Milwaukee
Chain Belt Co.

Cathetometers*N. Y., New York City*

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Pa., Philadelphia

Thomas Co., Arthur H., W. Washington Sq.

Cathodes*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 Kenzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.*N. Y., New York City*

Eimer & Amend, Third Ave., at 18th St.

Pa., Philadelphia

Thomas Co., Arthur H., W. Washington Square

Pa., Pittsburgh

Scientific Materials Co.

Cathodes, Gold*N. J., Newark*

Baker & Co., H. J.

N. Y., Niagara Falls

Acheson Graphite Co.

Ill., Chicago

*Daigger & Co., A., 52-56 W. Kinzie St.

Pa., Philadelphia

*Scientific Materials Co., 711-19 Forbes St.

Cathodes, Graphite*N. Y., Niagara Falls*

International Acheson Graphite Co.

Cathodes, Platinum*N. Y., Newark*

Baker & Co., H. J.

American Platinum Co., 225 N. J. R. R. Ave.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Cathoters*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Causticizing Apparatus*Md., Baltimore*

Meade & Co., Richard K., 608 Law Bldg.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Zaremba Co., D. R., Morgan Bldg.

Caustic Soda Apparatus*Ill., Chicago*

Cannon-Swenson Co., 53 W. Jackson Blvd.

Me., Portland

Electron Chemical Co.

Md., Baltimore

Meade & Co., Richard K., 608 Law Bldg.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

Mass., Springfield

Green Co., Samuel L.

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

N. Y., Buffalo

Devine Co., J. P.

Zaremba Co., D. R., Morgan Bldg.

N. Y., New York City

Dorr Co., 101 Park Ave

Electrolytic Engineering Corporation, 501 Fifth Ave

Warner Chemical Co., 52 Vanderbilt Ave

Pa., Philadelphia

Electro-Chemical Supply & Engineering Co., 21 South 12th St.

Caustic Soda Recovery Apparatus*Mass., Fall River*

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

N. Y., New York City

Dorr Co., 101 Park Ave

Ceilings, Steel*Ohio, Canton*

Berger Mfg. Co.

Cells, Acid Proof Diaphragm*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Cells, Allen More Electrolytic*Maine, Portland*

Electron Chemical Co., 534 Congress St.

Cells, Electrolytic**Maine, Portland**

Electron Chemical Co., 534 Congress St.

Mass., Springfield

Green Co., Samuel M.

Mich., Saginaw, W. S.

Nickle, Frank H., 1321 N. Bond St.

N. Y., New York City

Electrolytic Engineering Corporation, 501 Fifth Ave.

Electrolytic Oxy-Hydrogen Laboratories, 15 William St.

Hooker Electrolytic Chemical Co., 40 Wall St.

Warner Chemical Co., 52 Vanderbilt Ave.

N. Y., Rochester

General Filtration Co., Inc., Cutler Bldg.

Ohio, Dayton

Electro Chemical Co., 111 W. Court St.

Cells, Leaching**Ill., Chicago**

Swenson Evaporator Co., 945 Monadnock Bldg.

N. Y., Buffalo

Zaremba Co., Niagara Life Ins. Bldg.

N. Y., New York City

Hooker Electrolytic Chemical Co., 40 Wall St.

Cells, Sodium Hypochlorite**Ohio, Dayton**

Electro Chemical Co., 111 W. Court St.

Celluloid Machinery**Conn., Ansonia**

Farrel Foundry & Machine Co.

Ill., Chicago

Caldwell & Son Co., W. H.

Link-Belt Co.

Stroud & Co., E. H.

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

Cement Machinery**Ill., Chicago**

Caldwell & Son Co., H. W., 17th St. and Western Ave.

Mass., Boston

American Tool & Machine Co., 10 High St.

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

N. Y., Frankfort

Acme Road Machinery Co.

N. Y., New York City

Aero Pulverizer Co., 120 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Hill Clutch Co.

Ohio, Columbus

Jeffrey Mfg. Co.

Pa., Allentown

Traylor Engineering & Mfg. Co.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

Pa., Wilkes-Barre

Vulcan Iron Works

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Cement Testing Apparatus**N. Y., New York City**

Scientific Utilities Co., Inc., 84 E. 10th St.

Cement Testing Machines**Cal., San Francisco**

*Braun-Knecht-Heimann Co., 576 Mission St.

Ill., Chicago

Fairbanks, Morse & Co., 900 S. Wabash Ave.

Humboldt Mfg. Co., 2014 Nebraska Ave.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Pa., Philadelphia

Olsen Testing Machine Co., Tinius, 500 N. 12th St.

Riehle Bros. Testing Machine Co., 1424 N. 9th St.

*Thomas Co., Arthur H., 238 W. Washington Sq.

Pa., Pittsburgh

Scientific Materials Co., 711-719 Forbes St.

Centrifugals, Clarifying**Mass., Boston**

American Tool & Machine Co., 10 High St.

International Equipment Co., 353 Western Ave.

Mich., Saginaw

Werner & Pfleiderer Co.

N. J., Trenton

De Laval Steam Turbine Co.

N. Y., New York City

DeLaval Separator Co., 165 Broadway

Hepworth Co., S. S., 2 Rector St.

Machinery Utilities Co., Inc., 501 5th Ave.

N. Y., Troy

Tolhurst Machine Works

Pa., Philadelphia

Fletcher Works, Glenwood Ave. and 2d St

Pa., West Chester

Sharples Specialty Co.

Centrifugals, Clarifying and Filtering

Pa., West Chester
Sharples Specialty Co.

Centrifugals, Hand Power

Pa., West Chester
Sharples Specialty Co.

Centrifugals, Industrial

Del., Wilmington

Pusey & Jones Co.

La., New Orleans

Joubert & Goslin Machine & Foundry Co., Howard and Euphrosine Sts.

Mass., Boston

American Tool & Machine Co., 10 High St.

International Equipment Co., 352 Western Ave.

Mich., Saginaw

Werner & Pfleiderer Co., Inc.

N. Y., Buffalo

Buffalo Forge Co.

Squier Mfg. Co., Broadway and Mortimer Sts.

N. Y., New York City

DeLaval Separator Co., 165 Broadway

Hepworth Co., S. S., 2 Rector St.

Ingersoll-Rand Co., 11 Broadway

Machinery Utilities Co., Inc., 501 5th Ave.

Sunborn Evaporator Co., 87 Wall St.

N. Y., Troy

Tolhurst Machine Works

Pa., Philadelphia

Cresson-Morris Co., 18th and Allegheny Ave.

Ott Co., George F., 213 Buttonwood St.

Fletcher Works, Glenwood and North America Sts.

Pa., West Chester

Sharples Specialty Co.

Centrifugals, Laboratory

Ill., Chicago

Central Scientific Co., 460 E. Ohio St.

Deegan Supply Co., 116 122 W. Illinois St.

Mass., Boston, Brighton Sta.

International Equipment Co., 353 Western Ave.

N. Y., New York City

*Bouline, Victor J., 1 Union Sq.

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

N. Y., Troy

Tolhurst Machine Works

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Pa., West Chester

Sharples Specialty Co.

Centrifugals, Nitrating

N. Y., Troy

Tolhurst Machine Works

Centrifugals, Oil

Ill., Chicago

Troy Laundry Machinery Co., 23d and La Salle Sts.

Mass., Boston

American Tool & Machine Co., 10 High St.

National Separator & Machine Co., 89 State St.

Mich., Saginaw

Werner & Pfleiderer, Inc.

N. Y., New York City

DeLaval Separator Co., 165 Broadway

Pa., Philadelphia

Oil & Waste Saving Machine Co., 1509 Real Estate Trust Bldg.

Pa., West Chester

Sharples Specialty Co.

Centrifugals, Special

N. J., Trenton

DeLaval Steam Turbine Co.

Centrifugals, Separating

Mass., Boston

American Tool & Machine Co., 10 High St.

International Equipment Co., 353 Western Ave.

N. J., Trenton

DeLaval Steam Turbine Co.

N. Y., New York

Hepworth Co., S. S., 2 Rector St.

DeLaval Separator Co., 165 Broadway

N. Y., Troy

Tolhurst Machine Works

Pa., West Chester

Sharples Specialty Co.

Centrifugals, Sugar

Del., Wilmington

Pusey & Jones Co.

La., New Orleans

Haubtman & Loeb Co., 1717 Magazine St.

Murphy, Jno. H., 643 Magazine St.

Payne & Joubert, 2304 Euphrosine St.

N. Y., Brooklyn

Pioneer Iron Works, 149 Pioneer St.

N. Y., Buffalo

Squier Mfg. Co., Geo. L., Broadway and Mortimer Sts.

Centrifugals, Sugar—cont.*N. Y., New York City*

Cutan Engineering Corporation, 50 Broad St.

Deeley & Co., Robt., 29 Broadway

DeLaval Separator Co., 165 Broadway

Hepworth Co., S. S.

Turl's Sons, Jno., 55 Liberty St.

Pa., West Chester

Sharples Specialty Co.

Centrifuges (see also Centrifugals)*Ill., Chicago*

Chicago Surgical & Electrical Co., 314 W. Superior St.

Mass., Boston

International Equipment Co., 352 Western Ave.

Centrifuges, Electric*Ill., Chicago*

*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Victor Electric Corporation, 246 S. Robey St.

Chains*Conn., Bridgeport*

American Chain Co., Inc.

Conn., New Haven

Sargent & Co.

Conn., Waterbury

American Brass Co.

Plume & Atwood Mfg. Co.

Ill., Aurora

Stephens-Adamson Mfg. Co.

Ill., Chicago

American Manganese Steel Co., McCormick Bldg.

Caldwell & Son Co., H. W., 17th and Western Ave.

Link-Belt Co., W. 39th and Stewart Ave.

N. J., Trenton

Roeblings Sons Co., John A.

N. Y., Ithaca

Morse Chain Co.

N. Y., New York City

Hungerford Brass & Copper Co., U. T., 80 Lafayette Ave.

Ingersoll & Brother, R. H., 315 4th Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O., French and Columbus Sts.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Chain Belt Co., 744 Park St.

Chamber Plant Details*Mass., Fall River*

Scott & Co., Ernest

N. Y., New York City

General Ceramics Co., 50 Church St.

Thermal Syndicate, Ltd., 50 E. 41st St.

N. C., Charlotte

Chemical Construction Co.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Chamois*Mass., Boston*

Clark Co., A. B., 107 South St.

N. J., Newark

Newark Chamois Co.

N. Y., New York City

American Sponge & Chamois Co., Inc., 73 Wooster St.

Laskor & Bernstein, 161 William St.

Leousi, Clonney & Co., 39 Walker St.

Rhodes & Co., James H., 162 William St.

Young Co., Richard, 36 Spruce St.

Borgfeldt & Co., Geo., 16th and Irving Pl.

McKesson & Robbins, 91 Fulton St.

National Sponge & Chamois Co., 158 William St.

Pa., Philadelphia

Burk & Co., Wm. B., 534 Arch St.

Drueding Bros. Co., 5th and Master Sts.

Smith, Kline & French Co.

Pa., Scranton

Black Horn Sales Co.

Chemical Apparatus (see Laboratory Apparatus and Equipment, Specific Headings)**Chemical Engines***Mass., Boston*

Badger Fire Extinguisher Co., Inc., 34 Portland St.

Chemical Equipment (see Specific Headings)**Chewing Gum Machinery***Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Chilling Machines*Ill., Chicago*

Link-Belt Co.

Peerless Ice Machine Co.

Chilling Machines—cont.*Ky., Louisville*

Vogt Machine Co., Henry

Mo., St. Louis

Brecht Co.

*N. Y., New York City*De La Vergne Machine Co., 1136 E.
138th St.*Pa., Carbondale*

Carbondale Machine Co.

Pa., York

York Mfg. Co.

Chimneys, Iron and Steel*Md., Baltimore*

Bartlett, Hayward Co

Mich., Muskegon

Muskegon Boiler Works

N. J., Jersey City

Koven & Bro., L. O., 200 Ogden Ave.

Ohio, Alliance

Reeves Brothers Co.

Ohio, Akron

Biggs Boiler Works

Pa., Chester

Wetherill & Co., Robert

Pa., Coatesville

Coatesville Boiler Works

Pa., Sharon

Petroleum Iron Works Co.

Chimneys, Radial Brick and Concrete*Ill., Chicago*Weber Chimney Co., 332 S. Michigan
Ave.*Mich., Detroit*

Trussed Concrete Steel Co.

N. Y., New York City

Kellogg Co., The M. W., 90 West St.

Pa., Pittsburgh

Rust Engineering Co., Keenan Bldg

**Chlorinating Apparatus (see
Chlorine Plants)****Chlorine Plants***Mass., Boston*

Badger & Sons Co., E. B.

Little Co., Arthur D.

Mass., Fall River

Scott & Co., Ernest

*N. Y., Buffalo*Buffalo Foundry & Machine Co., 47
Winchester Ave.*N. Y., New York*

General Ceramics Co., 50 Church St.

Worthington Pump & Machinery
Corp., 113 Broadway*Pa., Philadelphia*Electro Chemical Supply & Engineer-
ing Co.*Wis., Milwaukee*

Allis-Chalmers Mfg. Co.

Chlorinators*N. Y., New York City*

Palo Co., 90 Maiden Lane

**Chlorine Electrolytic Cells (see
Cells, Electrolytic)****Chlorine Electrolytic Plants***Me., Portland*

Electron Chemical Co.

*N. Y., New York City*Electrolytic Engineering Corporation,
501 Fifth Ave

Foundation Co., The Woolworth Bldg.

Hooker Electrochemical Plants, 40
Wall StWestinghouse, Church, Kerr & Co., 37
Wall St.Warner Chemical Co., 52 Vanderbilt
Ave.*Pa., Philadelphia*Electro-Chemical Supply & Engineer-
ing Co., 1207 Stephen Girard Bldg.**Chloroform Plants***Ill., Chicago*

Kaestner & Hecht Co., Inc.

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.

Lummus Co., Walter E., 173 Milk St.

Chocolate Machinery*Mass., Boston*New England Chocolate Machinery
Co.*Mich., Saginaw*Werner & Pfleiderer Co., 1260 N. Ni-
agara St.*N. Y., Buffalo*

Sowers Mfg. Co.

Ohio, Cincinnati

Day Co., J. H.

Churns*Ill., Chicago*Creamery Package Mfg. Co., 61 W.
Kinzie St.*Iowa, Cedar Rapids*

Cherry Co., J. G.

*Mass., Boston*American Tool & Machine Co., 10
High St.*Mich., Saginaw*

Werner & Pfleiderer Co., Inc.

N. Y., Little Falls

Burrell Co., D. H.

N. Y., Long Island City

Jensen Creamery Machine Co.

Chutes*Ill., Chicago*

Fairbanks-Morse & Co., 90 S. Wabash Ave.

Link-Belt Co., W. 39th and Stewart Ave.

Mass., Boston

Lamson Co., 100 Boylston St.

Sturtevant Mill Co.

N. J., East Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. J., Jersey City

Koven & Bro., L. O., 200 Ogden Ave.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Leetonia

Leetonia Boiler Co., Kunkel Bldg.

Pa., Pittsburgh

Scaife & Sons Co., W. B., First Nat. Bank Bldg.

Pa., Sharon

Petroleum Iron Works Co.

Chutes, Gravity Spiral*Pa., Ellwood City*

Mathews Gravity Carrier Co.

Circuit Breakers*Mass., South Boston*

Condit Electrical Mfg. Co.

N. Y., Schenectady

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Clamps, Adjustable*Conn., Branford*

Malleable Iron Fittings Co.

Mass., Boston

Walworth Mfg. Co.

Pa., Erie

Javecki Mfg. Co.

Clamps, Laboratory (*see Laboratory Apparatus and Equipment*)**Clamps, Pipe Joint***Mass., Boston*

Walworth Mfg. Co.

Ohio, Cleveland

National Malleable Castings Co.

Clarification Plants*Pa., West Chester*

Sharples Specialty Co., The

Clarifiers (*see also Centrifugals*)*Cal., Los Angeles*

Llewellyn Iron Works, 120 N. Main St.

Col., Denver

Colorado Iron Works Co.

Denver Iron Works Co., 30th and Blake Sts.

Ill., Chicago Heights

Chalmers & Williams, Inc.

N. J., Newark

James Ore Concentrator Co.

N. Y., New York City

De Laval Separator Co., 165 Broadway

Dorr Co., The, 17 Battery Pl.

Mine & Smelter Supply Co., 42 Broadway

Pa., Allentown

Traylor Engineering & Mfg. Co.

Pa., West Chester

Sharples Specialty Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Clarifiers, Centrifugal (*see Centrifugals, Clarifying*)**Clarifiers, Sugar** (*see Centrifugals, Sugar*)**Clarifiers, Vacuum***N. Y., New York City*

Dorr Co., The, 17 Battery Pl.

Classifiers, Adkins*Colo., Denver*

Colorado Iron Works Co.

Classifiers, Hydraulic*Colo., Denver*

Colorado Iron Works Co.

Classifiers, Metallurgical*Cal., Los Angeles*

Llewellyn Iron Works

Colo., Denver

Colorado Iron Works

Ill., Chicago Heights

Chalmers & Williams, Inc.

N. Y., New York City

Dorr Co., 101 Park Ave.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Clay Working Machinery*Ill., Chicago*

Stroud & Co., E. H., 928 Fullerton Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

N. Y., New York City

Abbé, Paul O., 30 Broad St.

Abbe Engineering Co., 220 Broadway

Dorr Co., The, 17 Battery Pl.

Clay Working Machinery—cont.

- Mich., Saginaw*
Werner & Pfeleiderer, Inc., 1260 N. Niagara St.
- Ohio, Bucyrus*
American Clay Machinery Co.
- Ohio, Cleveland*
Bartlett & Snow Co., C. O.
- Ohio, Dayton*
International Clay Machinery Co.
- Ohio, East Liverpool*
Patterson Foundry & Machine Co.
- Pa., Philadelphia*
Chambers Bros. Co., 52d and Media St.

Cleaners, Boiler Tube

- Ill., Chicago*
Ryerson & Son, Joseph T.
- N. Y., New York City*
Johns-Manville Co., Madison Ave. and 41st St.
- Ohio, Cleveland*
Bishop-Babcock-Becker Co.
- Pa., Erie*
Jarecki Mfg. Co.
- Pa., Philadelphia*
Houghton & Co., 240 W. Somerset St
- Pa., Pittsburgh*
Seafie & Sons Co., Wm. B., First Nat Bank Bldg.

Cleaners, Coal

- Ill., Chicago*
Caldwell & Son Co., H. W., 17th and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave
Sackett Screen & Chute Co., 1681 Elston Ave
Weller Mfg. Co., 1820 N. Kostner Ave.
- Mass., Clinton*
Clinton Wire Cloth Co.
- Mass., Worcester*
Wright Wire Co.
- N. J., Newark*
Newark Wire Cloth Co., 228 Verona St
- N. J., Trenton*
N. J. Wire Cloth Co.
- Ohio, Cleveland*
Bartlett & Snow Co., C. O., French and Columbus Sts.
- Pa., Philadelphia*
Pennsylvania Crusher Co., Girard Bldg.
- Cleaners, Condenser**
- Ohio, Springfield*
Lagonda Mfg. Co., 1809 Sheridan Ave.

Cleaners, Ore (see Cleaners, Coal)**Cleaners, Vacuum**

- Ind., Connersville*
Connersville Blower Co.

Clips, Test Tube (Wooden)

- N. Y., New York City*
*Estes & Sons, E. B., 362 5th Ave.

Cloth, Asbestos

- N. J., Manville*
Johns-Manville Co.
- N. Y., New York City*
Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
- Ohio, Lockland*
Carey Mfg. Co., Philip

Cloth, Bolting

- Mich., Detroit*
Michigan Wire Cloth Co., 504 Howard St.
- N. J., Newark*
Newark Wire Cloth Co., 228 Verona Ave.
- N. Y., Brooklyn*
National Filter Cloth & Weaving Co.
- N. Y., New York City*
Abbe, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Multi-Metal Separating Screen Co., 255 W. 19th St.
- Ohio, Cleveland*
Tyler Co., W. S., Superior Ave. and 36th St.
- Ohio, East Liverpool*
Patterson Foundry & Machine Co.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co

Cloth, Bolting, Metallic

- N. J., Newark*
Newark Wire Cloth Co., 222-228 Verona Ave.

Cloth, Centrifugal

- Mass., Boston*
Clinton Wire Cloth Co., Sears Bldg.
- N. J., Newark*
Newark Wire Cloth Co., 222-228 Verona Ave.
- N. Y., New York City*
Multi-Metal Co., Inc., 255 W. 19th St.
Provost Engineering Corp., 220 Broadway
- Ohio, Cleveland*
Tyler Co., W. S., Superior Ave. and 36th St.

Cloth, Filter*Ill., Batavia*

Sperry & Co., D. R.

Allbright-Nell Co., 5225 Southwestern Blvd.

Ga., La Grange

Unity Cotton Mills

Ill., Chicago

Channon Co., H., Market and Randolph Sts.

Mass., Boston

Clinton Wire Cloth Co., Sears Bldg.

Md., Baltimore

Mt. Vernon-Woodberry Mills, Inc.

Mo., St. Louis

Bemis Bros. Bag Co., 600 S. 4th Ave.

N. J., Harrison

Shriver & Co., T., 860 Hamilton St.

N. J., Newark

Newark Wire Cloth Co.

N. J., Passaic

Brighton Mills

N. Y., Albany

Huyek & Sons, F. C.

N. Y., Brooklyn

Brooklyn Filter Bag Co., 643 Kent Ave.

Johnson Co., John, 37th and 2d Ave.

National Filter & Cloth Weaving Co., 57 Hope St.

United Filters Corporation

N. Y., New York City

Boyle & Co., John, 112 Duane St.

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Lamb, Finlay & Co., 258 Church St.

Lane & Co., J. H., 334 4th Ave.

Multi Metal Co., Inc., 255 W. 19th St
Provost Engineering Corp., 220 Broadway

*Turner, Halsey Co., 62 Leonard St.

Van Emden Co., H., 145 W. 45th St.

N. Y., Oriskany

Waterbury & Sons Co., H.

Ohio, Cleveland

Tyler Co., W. S., Superior Ave. and 36th St.

Pa., Philadelphia

Supplee-Biddle Hardware Co.

Utah, Salt Lake City

Filter Fabrics Co., Felt Bldg.

Wis., Milwaukee

Milwaukee Bag Co., 206 S. Water St.

Cloth, Filter, Alkali Proof*N. Y., New York City*

*Multi Metal Co., Inc., 251 W. 19th St.

Cloth, Filter, Camel's Hair*La., New Orleans*

Mente & Co.

N. Y., New York City

*Boyle & Co., 112 Duane St.

Goepel & Co., L. F., 137 E. 13th St.

*Turner, Halsey Co., 62 Leonard St.

Cloth, Filter, Cotton*Ill., Batavia*

Allbright-Nell Co., 5225 Southwestern Blvd.

Md., Baltimore

Mt. Vernon-Woodberry Mills, Inc.

Mo., St. Louis

Bemis Bros. Bag Co., 600 S. 4th Ave.

N. J., Passaic

Brighton Mills

N. Y., Albany

Huyek & Sons, F. C.

N. Y., Brooklyn

Brooklyn Filter Bag Co., 643 Kent Ave.

Johnson Co., John, 37th and 2d Ave

N. Y., New York

Boyle & Co., Inc., John, 112 Duane St.

*Turner, Halsey Co., 62 Leonard St

United Filters Corporation, 65 Broadway

Cloth, Filter, Metallic*Ill., Batavia*

Sperry & Co., D. R.

Ill., Chicago

American Wire Fabrics Co.

Mass., Boston

Clinton Wire Cloth Co

N. J., Harrison

Shriver & Co., T.

N. J., Newark

Newark Wire Cloth Co., 222-228 Verona Ave.

N. Y., New York City

Multi-Metal Co., Inc., 225 W. 19th St.

United Filters Corporation, 65 Broadway

Ohio, Cleveland

Tyler Co., W. S., Superior Ave. and 36th St.

Cloth, Filter, Monel Metal*N. Y., New York City*

Multi Metal Co., Inc., 251 W. 19th St.

Cloth, Filter, Special Grades*Md., Baltimore*

Mt. Vernon-Woodberry Mills, Inc.

N. Y., New York

Turner, Halsey Co., 62 Leonard St.

Cloth, Filter, Wire*Conn., Georgetown*

Gilbert & Bennett

Ill., Batavia

Sperry & Co., D. R.

Mass., Clinton

Clinton Wire Cloth Co.

Mich., Detroit

Michigan Wire Cloth Co.

N. J., Newark

Newark Wire Cloth Co., 222-228 Verona Ave.

N. J., Trenton

New Jersey Wire Cloth Co.

*N. Y., New York City*Hungerford Brass & Copper Co., U. T.,
80 La Fayette St.Mutl-Metal Co., Inc., 255 W. 19th St.
Provost Engineering Corporation, 220
Broadway*Ohio, Cleveland*

Tyler Co., W. S.

Pa., Philadelphia

Supplee Biddle Hardware Co.

Cloth, Filter, Wool*Conn., Unionville*

House & Sons

*N. Y., Brooklyn*National Filter Cloth & Weaving Co.,
57 Hope St.*N. Y., New York City*Boyle & Co., Inc., John, 112-114 Duane
St.**Cloth Machinery, All Purposes***Conn., Middletown*

Palmer Co., E. I.

Mass., Boston

Riley Co., C. E., 65 Franklin St.

Mass., Holyoke

Holyoke Machine Co.

Mass., Hopedale

Draper & Co.

Mass., Orange

Hunt Machine Co., R.

Mass., Worcester

Curtis & Marble Machine Co.

N. Y., Troy

Tolhurst Machine Works

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Pa., Philadelphia

Philadelphia Drying Machine Co.

Philadelphia Textile Machinery Co.,
6th St. and Tabor Road*R. I., Providence*

Textile Finishing Machinery Co.

Cloth, Metal (see also *Specific Headings*)*N. Y., New York City*United Filters Corporation, 65 Broad-
way**Cloth, Waterproof***Del., Wilmington*

Du Pont Fabrikoid Co.

Ill., Chicago

Lehon Co., W., 45th and Oakley Ave.

N. Y., New York City

Boyle & Co., 112 Duane St.

Hydrex Felt & Eng. Co., 120 Liberty
St.International Rubber Co., 120 Broad-
way**Cloth, Wire, Monel Metal***N. J., Harrison*

Driver-Harris Co.

N. J., Newark

Newark Wire Cloth Co.

Mass., Boston

Clinton Wire Cloth Co.

Ohio, Cleveland

Tyler Co., W. S.

*Pa., Philadelphia*Supplee-Biddle Hardware Co., 507
Commerce St.**Cloth, Wire, Screening** (see *Cloth, Wire*)**Clothing, Rubber, Acid Re-
sisting***Ohio, Akron*Goodrich Rubber Co., B. F., S. Main
St.**Clutches, Friction***Del., Wilmington*

Walker & Elliott, Inc.

*Ill., Chicago*Caldwell & Sons Co., H. W., 17th and
Western Aves.Link-Belt Co., W. 39th and Stewart
Ave.*Ky., Louisville*

Caldwell Co., W. E.

*Mass., Boston*American Tool & Machine Co., 10
High St.*Md., Baltimore*

Poole Engineering & Machine Co.

N. Y., Buffalo

Farrar & Trefts, 47 Perry St.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Tiffin

Webster Mfg. Co.

Clutch Facings, Cork Insert*Mass., Boston*

Cork Insert Co., 164 Federal St.

Coal Briquetting Machinery

- N. Y., New York City*
 General Briquetting Co., Inc., 41 Broadway
 Mashek Engineering Co., 90 West St.
Pa., Allentown
 Traylor Engineering & Machine Co.
Pa., Philadelphia
 Stokes Machine Co., F. J., 17th and Cambria Sts.

Coal Burning Equipment, Powdered

- Ill., Chicago*
 *Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., New York City
 Quigley Furnace Specialties Co., Inc., 26 Cortlandt St.

Coal Crushers (*see Crushers, Coal*)**Coal Gas By-Product Plants** (*see Coke By-Products Plants*)**Coal Gas Plants**

- Ind., Fort Wayne*
 Western Gas Construction Co.
Md., Baltimore
 Bartlett-Hayward Co.
N. Y., New York City
 Improved Equipment Co., 60 Wall St.
 Tirrill Gas Machine Lighting Co., 103 Park Ave.
Pa., Philadelphia
 United Gas Improvement Co., 1514 S. Broad St.
 Wood & Co., D. R., 400 Chestnut St.

Coal Gas Scrubbers (*see Scrubbers*)**Coal Handling Machinery**

- Ill., Chicago*
 Caldwell & Son Co., H. W., 17th St. and Western Ave.
 Goodman Mfg. Co., Halstead St. and 48th Pl.
 Link-Belt Co., W. 39th and Stewart Ave.
 Stroud & Co., E. H., 928 Fullerton Ave.
 Sullivan MacInery Co., People's Gas Bldg.
 Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
 Sturtevant Mill Co., Harrison Sq.
Mass., East Boston
 Mead Morrison Mfg. Co.
N. Y., New York City
 Guarantee Construction Co., 90 West St.

Holly Pneumatic Systems, Inc., 145 W. 45th St.

- Ingersoll Rand Co., 11 Broadway
 Van Emden Co., H., 145 W. 45th St.
 Wellman-Seaver-Morgan Co., 50 Church St.
N. Y., West New Brighton, Staten Island
 Hunt Co., Inc., C. W.
Ohio, Cincinnati
 Alvey-Ferguson Co.
Ohio, Cleveland
 Bartlett & Snow Co., C. O.
Ohio, Columbus
 Jeffrey Mfg. Co., 954 N. 4th St.
Pa., Philadelphia
 Pennsylvania Crusher Co., Girard Bldg.
Wis., Milwaukee
 Allis-Chalmers Mfg. Co.
 Chain Belt Co., 734 Park St.

Coal Pulverizers (*see Pulverizers, Coal*)**Coal Repairing Equipment**

- Pa., Carbondale*
 Cross Engineering Co.
Pa., Pittsburgh
 Pittsburgh Coal Washer Co., 812 Fulton Bldg.
W. Va., Fairmont
 Fairmont Mining Machinery Co.

Coal Separators (*see Separators*)**Coal Storage Installations** (*see Coal Handling Machinery*)**Coal Tar Plants**

- England, Widnes*
 Widnes Foundry Co., Ltd., The
Ind., Fort Wayne
 Western Gas Construction Co.
Md., Baltimore
 Bartlett-Hayward Co.
Mass., Boston
 Badger & Sons Co., E. B., 63-65 Pitts St.
 Lummus Co., Walter E., 173 Milk St.
Mass., Cambridge
 Little Co., Arthur, Charles River Rd.
Mass., Fall River
 Scott & Co., Ernest
N. Y., Buffalo
 Buffalo Foundry & Machine Co., 26 Winchester Ave.
 Devine Co., J. P.

Coal Tar Recovery Apparatus
(see Recovery Apparatus)

Coal Testing Apparatus*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

Mo., St. Louis

*Heil Chemical & Mfg. Co., 216 S. 4th St.

Pa., Philadelphia

*Thomas Co., Arthur H., 238 W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 717 Forbes St.

Coal Washers (*see also Coal Handling Machinery*)*Pa., Pittsburgh*

Pittsburgh Coal Washer Co., 812 Fulton Bldg.

Coating Machinery*Mass., Boston*

American Tool & Machine Co., 10 High St.

Mich., Detroit

Colton Co., Arthur

N. Y., Rochester

Knowlton Co., M. D.

Pa., Philadelphia

Moore & White Co.

Stokes Machine Co., F. J.

Coating Spray Machines
Cooperage*Ohio, Cleveland*

Eureka Machine Co., 2610 Vega Ave

Coats, Laboratory (*see Aprons*)**Cocks, Acid Proof***Ill., Chicago*

Redlich Mfg. Co., 637 W. Oak St.

Ill., Monmouth

Western Stoneware Co

N. Y., New York City

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Mott Iron Works, J. L., 118 5th Ave.

United Lead Co., 111 Broadway

Wilfert Co., John, 259 Broadway

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc.

Ohio, Akron

U. S. Stoneware Co.

Ohio, Cincinnati

Lunkenheimer Co., Beekman and Waverley Sts.

Ohio, East Akron

Knight, Maurice A.

Pa., Erie

Jarecki Mfg. Co.

Pa., Homestead

Homestead Valve Mfg. Co.

Pa., Pittsburgh

National Tube Co.

Cocks, Air*Ill., Chicago*

Crane Co., 830-836 S. Michigan Ave.

Mass., Boston

American Steam Gauge & Valve Mfg. Co., 208 Camden St.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Wilfert Co., John C., 259 Broadway

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc.

Ohio, Cincinnati

Lunkenheimer Co.

Ohio, Cleveland

Bishop & Babcock Co.

Pa., Homestead

Homestead Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Cocks, Brass*Ohio, Cincinnati*

Lunkenheimer Co.

Ohio, Cleveland

Cleveland Brass Mfg. Co., 4606-4626 Hamilton Ave.

Pa., Pittsburgh

National Tube Co.

Cocks, Bronze (*see Cocks, Brass*)**Cocks, Filter Press***Ill., Batavia*

Sperry Co., D. R.

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

Ohio, Cincinnati

Lunkenheimer Co., Beekman and Waverley Sts.

Cocks, Flanged*Mass., Boston*

Eastern Clay Goods Co., 141 Milk St.

N. Y., New York City

Jenkins Brothers 80 White St.

Wilfert Co., John, 259 Broadway

Ohio, Cincinnati

Lunkenheimer Co., Beekman & Waverly.

Powell Co., The Wm., 2521 Spring Grove Ave.

Pa., Erie

Jarecki Mfg. Co.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Cocks, Four Way*Ill., Chicago*

Crane Co., 830-836 S. Michigan Ave.

Ohio, Cincinnati

Lunkenheimer Co.

Pa., Erie

Jarecki Mfg. Co.

Pa., Homestead

Homestead Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Cocks, Gauge*Ill., Chicago*

Crane Co., 830-836 S. Michigan Ave.

Mass., Boston

American Steam Gauge & Valve Mfg. Co., 208 Camden St.

N. Y., Buffalo

Sherwood Mfg. Co., 1710 Elmwood Ave.

N. Y., New York City

Wilfert Co., John C., 259 Broadway

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Cocks, Hard Lead*N. Y., New York City*

United Lead Co., 111 Broadway

Cocks, Hydraulic*Mass., Boston*

American Steam Gauge & Valve Mfg. Co., 208 Camden St.

N. Y., New York City

Wilfert Co., John C., 259 Broadway

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc.

Ohio, Cleveland

Bishop & Babcock Co.

Cocks, Plug*N. Y., New York City*

Duriron Castings Co., 90 West St.

Ohio, Cincinnati

Lunkenheimer Co.

Ohio, Cleveland

Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Cocks, Rubber*N. Y., New York City*

American Hard Rubber Co.

Pennsylvania Rubber Co.

U. S. Rubber Co., 1790 Broadway

Cocks, Stoneware*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice Co.

Cocks, Stop*Ill., Chicago*

Crane Co., 830-836 S. Michigan Ave.

Mass., Boston

American Steam Gauge & Valve Mfg. Co., 208 Camden St.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, East Akron

Knight, Maurice Co.

Pa., Homestead

Homestead Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Standard Sanitary Mfg. Co.

Cocks, Three Way*Ill., Chicago*

Crane Co., 830-836 S. Michigan Ave.

Mass., Boston

American Steam Gauge & Valve Mfg. Co., 208 Camden St.

N. Y., New York City

General Ceramics Co., 50 Church St.

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pa., Homestead

Homestead Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Cocoa Machinery*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Coilers, Flexible Shaft Casing and Metallic Tubings*Mass., Worcester*

Sleeper & Hartley, Inc., 68 Prescott St.

Coiling Machines, Spring and Wire*Mass., Worcester*

Sleeper & Hartley, Inc., 68 Prescott St.

Coiling Machines, Tungsten Filament

Mass., Worcester

Sleeper & Hartley, Inc., 68 Prescott St.

Coils, Acid Proof, Stoneware

N. Y., New York City
General Ceramics Co.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice E.

Coils, Aluminum

Conn., New Haven

United Smelting & Aluminum Co., Inc.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.

Coils, Ammonia

Ky., Louisville

Vogt Machine Co., Henry

N. J., Brunswick

Brunswick Refining Co.

N. Y., New York City

De La Vergne Machine Co., E. 138th St.

Wilfert Co., John, 258 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co.

Coils, Brass

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

N. J., Bayonne

Cox Engineering & Tube Bending Machine Works

N. Y., New York City

Gerdes & Co., Inc., 40 Church St.

Roos Sons, August, 429 E. 91st St.

Wilfert Co., John, 258 Broadway

Pa., Philadelphia

Philadelphia Pipe Bending Co.

Coils, Cast Iron Enameled Condenser

England, Deepfields, nr. Bilston, Staffs.

Cannon Iron Foundries, Ltd.

Coils, Chemical

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

N. J., Bayonne

Cox Engineering & Tube Bending Machine Works

N. Y., Brooklyn

Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.

N. Y., New York City

General Ceramics Co., 50 Church St.

Sidio Co. of America, 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Machinery Utilities Co., Inc., 501 5th Ave.

Ohio, Akron

United States Stoneware Co.

Coils, Copper

Md., Baltimore

Baltimore Tube Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

N. J., Bayonne

Cox Engineering & Tube Bending Machine Works

N. Y., New York City

Gerdes & Co., Inc., 30 Church St.

Machinery Utilities Co., Inc., 501 5th Ave.

Roos Son, August, 429 E. 91st St.

Wilfert Co., John, 258 Broadway

Coils, Induction

N. Y., New York City

Bernard & Co., F. J., 70 Murray St.

N. Y., Schenectady

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Philadelphia

Biddle, James G.

Queen-Gray Co.

Coils, Iron

N. J., Bayonne

Cox Engineering & Tube Bending Machine Works

N. Y., New York City

Gerdes & Co., Inc., 30 Church St.

Wis., Madison

Vilter Mfg. Co.

Coils, Lead

N. J., Bayonne

Cox Engineering & Tube Bending Machine Works

N. Y., Brooklyn

Abernethy, John F. 703 Myrtle Ave.

N. Y., New York City

United Lined Tube & Valve Co., 111 Broadway

Coils, Pipe (*see also Specific Headings*)*Conn., Hartford*

Whitlock Coil Pipe Co.

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

Mich., Detroit

Detroit Heating & Lighting Co.

N. Y., New York City

Cox Engineering & Tube Bending Machine Works

Simmons Co., John, 110 Centre St.

Wilfert Co., John, 258 Broadway

Wis., Milwaukee

Vilter Mfg. Co., 824 Clinton St.

Coils, Platinum*N. J., Newark*

American Platinum Works, 281 N. J. R. R. Ave.

Bishop & Co., Inc., 54 Austin St.

Pa., Malvern

Bishop & Co., J., Platinum Works

Coils, Tubular*Conn., Hartford*

Whitlock Coil Pipe Co.

Coil Winders, Resistance*Mass., Worcester*

Sleeper & Hartley, Inc., 68 Prescott St.

Coke Oven By-Products Plants*Colo., Denver*

American Coal Reduction & By-Products Co.

Ill., Chicago

Universal Engineering Co., 700 W. 22d St.

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Cambridge

Little Co., Arthur D., Charles River Rd.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

N. Y., New York City

Kalbpery Corp., 31 Union Sq., W.

Otto Coking Co., 6 Church St.

Westinghouse, Church, Kerr & Co., 37 Wall St.

Pa., Pittsburgh

Koppers Co., H., Union Ave.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Coke Ovens, Retort*Ill., Chicago*

American Refractories Co., 208 S. La Salle St.

Ind., Fort Wayne

Western Gas Construction Co.

N. Y., New York City

Otto Coking Co., 6 Church St.

N. Y., Syracuse

Semet-Solvay Co.

Pa., Pittsburgh

Coal & Coke By-Products Co.

Koppers Co., H., Union Ave.

Coke Screening Machinery (*see Screens*)**Coke Testing Apparatus***Pa., Pittsburgh*

Scientific Materials Co., 711-719 Forbes St.

Collecting Systems, Dust*Ill., Chicago*

Clark Dust Collecting Co., 1116 Fisher Bldg.

Raymond Bros. Impact Pulverizer Co. Stroud & Co., E. H., 928 Fullerton Ave.

Mass., Boston

Sturtevant & Co., Harrison Sq.

Md., Baltimore

Dixie Mfg. Co., Inc.

N. Y., New York City

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

N. Y., Buffalo

Buffalo Forge Co., 490 Broadway

Colorimeters*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

*Schaar & Co., 1025 S. State St.

Mass., Boston

International Equipment Co., 352 Western Ave.

Mo., St. Louis

*Heil Chemical Co., Henry, 210-214 S. 4th St.

N. Y., New York City

Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

N. Y., Rochester

Bauch & Lomb Optical Co., St. Paul St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

Scientific Materials Co., 711-719 Forbes St.

Coloring and Tempering Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Color Plants (see also Mills, Color)

Colorsopes

Ill., Chicago
Briedler Co., J. L., 334 S. Clinton St.

Columns, Absorbing

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Deyne Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Distilling

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Deyne Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Fractionating

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Deyne Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Cal., Los Angeles
Llewellyn Iron Works, N. Main and
Redondo Sts.
Ind., Fort Wayne
Western Gas Construction Co.
Mo., St. Louis
Laclede Steel Co., 415 Pine St.
N. Y., Lackawanna
Lackawanna Steel Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Altoona
Altoona Iron Co.
Pa., Lehigh
Lehigh Foundry Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel Co., Widener Bldg.
Pa., Pittsburgh
Carnegie Steel Co., Carnegie Bldg.
National Tube Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Columns, Rectifying

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Deyne Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Combustion Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S.
4th St.
N. J., Newark
American Platinum Works, 225 N. J.
R. R. Ave.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 205-211 3d Ave.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washing-
ton Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719
Forbes St.

Combustion Boats*Ill., Chicago*

*Daigger & Co., A., 52-56 W. Kinzie St.
Scientific Materials Co.

N. J., Newark

American Platinum Works, 225 N. J.
R. R. Ave.
Baker & Co., Inc., Murray and Austin
Aves.

N. Y., New York City

*Lenz Apparatus Co., Inc., 18 E. 16th
St.

Eimer & Amend, 205-211 3d Ave.

Sidio Co. of America, Inc., 37 Murray
St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Ohio, Zanesville

Ohio Pottery Co., Dearborn St.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washing-
ton Sq.

Pa., Pittsburgh

Crucible Steel Co. of America, 30th
and Smallman Sts.

Scientific Materials Co., 711-719 Forbes
St.

Combustion Boats, Alundum*Mass., Worcester*

Norton Co., New Bond St.

**Combustion Tubes, (Consult Com-
bustion Boats)****Comparators***Ill., Chicago*

*Gaertner & Co., Wm., 5345 Lake Park
Ave.

N. J., Newark

Weston Electrical Instrument Co.

N. Y., New York City

Eimer & Amend, 3d Ave., 18th to 19th
Sts.

N. Y., Rochester

Bausch & Lomb Optical Co.

Compensators, Automatic*Ohio, Cleveland*

Electric Controller & Mfg. Co., 2698
E. 79th St.

Compounds, Acid Proofing*Conn., Stamford*

Celluloid Zapon Co.

Del., Wilmington

Du Pont de Nemours & Co., E. I.

Ill., Chicago

Redmanol Products Co., 636 W. 22d
St.

Mich., Detroit

Trus-Con Laboratories

N. J., Bloomfield

Condensite Co. of America

N. Y., New York City

Celluloid Zapon Co., 200 5th Ave.

Certain-teed Products Co., 314 N.
Broadway

General Bakelite Co., 2 Rector St.

Texas Co., 17 Battery Pl

Toch Brothers, 320 5th Ave.

Ohio, Cleveland

Sherwin-Williams Co.

Compounds, Cable*Mo., St. Louis*

Dielectric Mfg. Co., 224 S. Vandeventer
Ave.

N. J., Jersey City

Dixon Crucible Co., Joseph

N. Y., Schenectady

General Electric Co.

Compounds, Case Hardening*N. Y., New York City*

Binney & Smith Co., 81 Fulton St.

Buchanan Chemical Co., 121 E. Pearl
St.

Compounds, Cement*N. Y., New York City*

Certain-teed Products Corp., 314 N.
Broadway

Compounds, Coloring*Conn., Stamford*

Celluloid Zapon Co.

N. Y., New York City

Celluloid Zapon Co., 200 5th Ave.

Compounds, Cutting*N. Y., New York City*

Oakley Chemical Co., 40 Thomas St.

Compounds, Graphite*N. J., Jersey City*

Dixon Crucible Co., Joseph

Compounds, Grinding

N. Y., New York City
Oakley Chemical Co., 40 Thomas St.

Compounds, Hardening (*see Compounds, Case Hardening*)**Compounds, Impregnating**

Ohio, Cleveland
Sherwin-Williams Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Compounds, Insulating

Ill., Chicago
Redmanol Products Co., 636 W. 22nd St.

Mo., St. Louis
Dielectric Mfg. Co., 224 S. Vandeventer Ave.

N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Certain-teed Products Co., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., Madison Ave. and 41st Sts.

N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Compounds, Moulding

Conn., Stamford
Celluloid Zapon Co.

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.

N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
General Bakelite Co., 2 Rector St.

Compounds, Plating

N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Klipstein & Co., A., 644 Greenwich St.

Compounds, Preservative

Conn., Stamford
Celluloid Zapon Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories

N. J., Bloomfield
Condesnite Co. of America

N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Corp., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Gutta Percha & Rubber Mfg. Co., 126 Duane St.
Johns-Manville Co., Madison Ave. and 41st St.
Klipstein & Co., A., 644 Greenwich St.
Toch Brothers, 320 5th Ave.

Ohio, Cleveland
Sherwin-Williams Co.

Compounds, Tank Lining

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.
Toch Brothers, 320 5th Ave.

Compounds, Tempering (*see Compounds, Case Hardening*)**Compounds, Transformer**

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.

Compounds, Waterproofing

Conn., South Norwalk
Nash Engineering Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories
N. J., Bloomfield
Condesnite Co. of America
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Corp., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Gutta Percha & Rubber Mfg. Co., 126 Duane St.
Toch Brothers, 320 5th Ave.
Ohio, Cleveland
Sherwin-Williams Co.

Compressors, Air*Cal., San Francisco*

Oliver Continuous Filter Co.

Colo., Denver

Mine & Smelter Supply Co.

*Ill., Chicago*Central Scientific Co., 460 E. Ohio St.
Chicago Pneumatic Tool Co., Fisher Bldg.*Elmer, H. N., 53 W. Jackson Blvd.
Fairbanks-Morse & Co., 902 S. Wash Ave.

Sullivan Machinery Co., 122 S. Michigan Ave.

Machinery Utilities Co., Inc., 501 5th Ave.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummas Co., Walter E., 173 Milk St.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Machinery Utilities Co., Inc., 501 5th Ave.

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Schenectady

General Electric Co.

Ohio, Cleveland

Bishop-Babcock-Becker Co.

U. S. Air Compressor Co.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Pa., Carbondale

Carbondale Machine Co.

Pa., Chester

Wetherill & Co., R. A.

Pa., Philadelphia

Otto Gas Engine Works

Pa., Pittsburgh

Westinghouse Air Brake Co.

Wis., Milwaukee

National Brake & Electric Co.

Allis-Chalmers Co.

Vilter Mfg. Co.

Compressors, Air, Electric*Md., Baltimore*

Black & Decker Mfg. Co., 105 S. Calvert St.

Compressors, Air, Pneumatic*Ill., Chicago*

Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.

Compressors, Ammonia*Conn., South Norwalk*

Nash Engineering Co.

Ill., Chicago

Creamery Package Mfg. Co., 61 W. Kinzie St.

Ky., Louisville

Vogt Machine Co., Henry

N. J., New Brunswick

Brunswick Refrigerating Co.

N. Y., New York City

De La Vergne Machine Co., 1205 E. 138th St.

Worthington Pump & Machinery Corp., 115 Broadway

Ohio, Cincinnati

Triumph Ice Machine Co.

Pa., York

York Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Co.

Vilter Mfg. Co., 824 Clinton St.

Compressors, Centrifugal*N. J., Trenton*

De Laval Steam Turbine Co.

N. Y., Schenectady

General Electric Co.

Compressors, Gas*Conn., South Norwalk*

Nash Engineering Co.

Ill., Chicago

Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Chicago Pneumatic Tool Co., Fisher Bldg.

Sullivan Machinery Co., People's Gas Bldg.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 113 Broadway

Wis., Milwaukee

Allis-Chalmers Co.

Compressors, Lead (Steam Jet)*Pa., Philadelphia*

Monarch Mfg. Works, 3129 Emery St.

Compressors, Tube

Ingersoll-Rand Co., 111 Broadway

Concentration Mills and Machinery (see Concentrators)

Concentrators, Acid*Cal., San Francisco*Senn Concentrator Co., First Nat.
Bank Bldg.*Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop Sts.*Ga., Atlanta*

Pratt Engineering & Machine Co.

*Ill., Chicago*Swenson Evaporator Co., 945 Monad-
nock Bldg.*Md., Baltimore*

Bartlett-Hayward Co.

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

*N. J., Newark*Acid Proof Iron Product Co., 41 Her-
man St.*N. Y., Brooklyn*

Abernathy, John F., 703 Myrtle St.

*N. Y., Buffalo*Buffalo Foundry & Machine Co., 26
Winchester Ave.*N. Y., New York City*

Duriron Casting Co., 90 West St.

General Ceramics Co., 50 Church St.

Kalbperly Corp., 31 Union Sq. W.

Machinery Utilities Co., Inc., 501 5th
Ave.

Sidco Co. of America, 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st
St.*N. C., Charlotte*

Chemical Construction Co.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Ohio, Elyria

Elyria Enameled Product Co.

Pa., Coatesville

Coatesville Boiler Works

*Pa., Philadelphia*Electro-Chemical Supply & Engineer-
ing Co., 21 S. 12th St.*Pa., South Bethlehem*

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Valley Iron Works

Concentrators, Dry*Mass., Boston*Huff Electrostatic Separator Co., 60
India St.**Concentrators, High***N. Y., Buffalo*Buffalo Foundry & Machine Co., Ferry
and Fillmore Aves.**Concentrators, Ore***Cal., Los Angeles*Llewellyn Iron Works, N. Main and
Redondo Sts.*Cal., Oakland*

Senn Concentrator Co.

*Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop Sts.Mine & Smelter Supply Co., Blake and
17th Sts.*Mass., Boston*Huff Electrostatic Separator Co., 60
India Sq.*N. Y., New York City*

Dorr Co., The

Mine & Smelter Supply Co., 42 Broad-
wayWorthington Pump & Machinery
Corp., 113 Broadway*Pa., Allentown*

Traylor Engineering & Machine Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Dings Magnetic Separator Co., 671
Smith St.**Condenser, Liebig***N. Y., Rochester*

Will Corporation

Condensers, Acid*N. J., Newark*Acid Proof Iron Products Co., 47 Her-
man St.*N. Y., New York City*

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Sidco Co. of America, 37-39 Murray St.

Stevens Brothers, 928 Singer Bldg.

Thermal Syndicate, Ltd., 50 E. 41st
St.*N. Y., Rochester*

Will Corporation

N. C., Charlotte

Chemical Construction Co.

*Pa., Philadelphia*Blair Campbell & McLean Inc., Colo-
nial Trust Bldg.

Condensers, Ammonia*Ill., Chicago*Creamery Package Mfg. Co., 61 W.
Kinzie St.*Ind., Fort Wayne*

Western Gas Construction Co.

Ky., Louisville

Vogt Machine Co., Henry

Neb., Omaha

Baker Machine Co.

N. Y., New York City

De La Vergne Machine Co.

Pa., Waynesboro

Frick Co.

Pa., York

York Mfg. Co.

Wis., Milwaukee

Vilter Mfg. Co., 824 Clinton St.

Condensers, Barometric*N. Y., Buffalo*Buffalo Foundry & Machine Co., Ferry
and Fillmore Aves.

Devine Co., J. P., 1366 Clinton St.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Kellogg Co., The M. W., 90 West St.

Worthington Pump & Machinery

Corp., 113 Broadway

Pa., Philadelphia

Stokes Machine Co., F. J.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co.

Condensers, Coil*Mass., Boston*

Lummus Co., Walter E., 173 Milk St.

Condensers, Copper*Mass., Boston*

Badger & Sons Co., E. B., 75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mich., Detroit

Detroit Heating & Lighting Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26

Winchester St.

Ohio, Cincinnati

American Copper & Brass Works, The

Pa., North Philadelphia

Stokes Machine Co., F. J.

Condensers, Distilled Water*Ill., Chicago*Mohr & Son, John, 349-359 W. Illinois
St.*Ind., Indianapolis*

Castle Refrigerating Machine Co.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

*Pa., Pittsburgh*Marshall Foundry Co., 28th and Rail-
road St.**Condensers, Enameled***N. Y., New York City*

Mott Iron Works, J. L., 118 Fifth Ave.

N. Y., Rochester

Pfaudler Co., Cutler Bldg.

Ohio, Elyria

Elyria Enameled Products Co.

Condensers, Gas*Ind., Fort Wayne*

Western Gas Construction Co.

Condensers, Jet*Ind., Connersville*

Connersville Blower Co.

Mass., Fall River

Scott & Co., Ernest

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. J., East Carteret

Wheeler Condenser & Engineering Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P., 1372 Clinton St.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ingersoll-Rand Co., 111 Broadway

Worthington Pump & Machinery
Corp., 113 Broadway*Pa., E. Pittsburgh*

Westinghouse Electric & Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co., 824 Clinton St.

Condensers, Laboratory*N. J., Vineland*Doerr Glass Co., Peach St. and Boule-
vard*N. Y., New York City*Scientific Utilities, Inc., 84 E. 10th
St.*Ohio, Akron*Biggs Boiler Works Co., Bank and Wil-
liams Sts. and B. & O. R. R.*Pa., Fullerton*

Fuller-Lehigh Co.

Condensers, Obnoxious Vapor*Pa., Philadelphia*Schautte & Koerting Co., 12th and
Thompson Sts.**Condensers, Oil Refining***Ohio, Niles*

Standard Boiler & Plate Iron Co.

Condensers, Reflux*Mass., Boston*

Badger & Sons Co., R. E., 63 Pitts St.

Mich., Detroit

Detroit Heating & Lighting Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

N. Y., New York City

General Ceramics Co., 50 Church St.

Machinery Utilities Co., Inc., 501 5th Ave.

Thermal Syndicate Ltd., 50 E. 41st St.

Ohio, East Akron

Knight, Maurice A.

Pa., Bethlehem

Bethlehem Foundry & Machine Co.

Condensers, Steam (*see Condensers, Jet*)**Condensers, Surface** (*see Condensers, Jet*)**Condensers, Synchronous***Pa., East Pittsburgh*

Westinghouse Electric & Manufacturing Co.

Condensers, Tubular*Mass., Boston*

Lummus Co., Walter E., 173 Milk St.

Condensers, Vacuum*Ill., Balaria*

Sperry & Co., D. R.

Ill., Chicago

Allbright-Neil Co., 5225 Southwestern Blvd.

Mass., Boston

Badger & Sons Co., E. B., 63 75 Pitt St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

Sowers Mfg. Co.

Pa., Philadelphia

Stokes Machine Co., F. J.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co.

Cones, Filter, Alundum*Mass., Worcester*

Norton Co.

Cones, Filter*N. Y., New York City*

*Eimer & Amend, 3d Ave., 18th to 19th St.

General Ceramics Co., 50 Church St.

N. J., Newark

Baker & Co., Inc.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Consistometers*N. Y., New York City*

Chatillon & Sons, John, 85-93 Cliff St.

Constant Temperature Apparatus*Ill., Chicago*

*Central Scientific Co., 360 E. Ohio St.

N. J., Newark

Thermo Electric Instrument Co.

Contacts*N. Y., Long Island City*

Commercial Research Co.

N. Y., Niagara Falls

Acheson Graphite Co.

International Acheson Graphite Co.

N. Y., Schenectady

General Electric Co.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Contacts, Platinum*N. J., Newark*

American Platinum Works, 225 New Jersey R. R. Ave.

Baker & Co., Inc.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Containers*Mich., Detroit*

Detroit Range Boiler Co.

N. Y., New York City

American Can Co., 120 Broadway

N. Y., Rochester

Pfaudler Co.

Ohio, Elyria

Elyria Enameled Products Co.

Containers, Acid Resisting, Enameled.*N. Y., New York City*

Mott Iron Works, J. L., 118 5th Ave.

Ohio, Elyria

Elyria Enameled Products Co.

Containers (for Heat Treatment Processes)*N. J., Garwood*

Garwood Bronze & Iron Works

Containers, Hard Rubber*N. J., Trenton*

Luzerne Rubber Co., Muirhead Ave.

Containers, Iron

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.

Containers, Pressed Steel, Glass Enameled

N. Y., Rochester
Pfaudler Co., The

Containers, Pressed Steel, Lead Lined

N. Y., New York City
Pfaudler Co., The, 110 W. 40th St.

Containers, Steel, for Lead, Chemicals and Mixed Paints

Mich., Detroit
Detroit Range Boiler Co., 60 724th St.
Pa., Pittsburgh
Pittsburgh Can Co.

Control Equipment, Electric

N. Y., Schenectady
General Electric Co.

Control Systems, Remote

Ind., Fort Wayne
Bowser & Co., Inc., S. F.

Control, Thermostatic

N. Y., Albany
Consolidated Car Heating Co.

Controllers

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Controllers, Automatic

Ill., Rockford
Eclipse Fuel Engineering Co.

Controllers, Condensate

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Controllers, Electric

N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Industrial Controller Co., 900 Greenbush St.

Controllers, Evaporated Milk

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Controllers, Heat, Automatic

N. Y., New York City
American Gas Furnace Co., 24 John St.

Controllers, Liquid Level

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Controllers, Temperature

Ill., Chicago
Unger, John S., 3344 Broadway
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., Rochester
Taylor Instrument Co., 95 Ames St.
Pa., Philadelphia
Brown Instrument Co.

Controlling Instruments (see also Regulators)

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Controls, Gas

Mich., Detroit
Steele Engineering Co., Woodward Ave.

Converters, Copper

Cal., San Francisco
Union Iron Works Co., 311 California Ave.

Colo., Denver

Colorado Iron Works Co.

N. J., Burlington

United States Cast Iron Pipe & Foundry Co.

N. Y., New York City

MacGovern & Co., Inc., 114 Liberty St.
Worthington Pump & Machinery Corp., 113 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Converters, Electric

Cal., San Francisco
Union Iron Works Co., 311 California Ave.

N. J., Burlington

United States Cast Iron Pipe & Foundry Co.

N. Y., New York City

MacGovern & Co., Inc., 114 Liberty St.

N. Y., Schenectady

General Electric Co.

Ohio, Springfield

Robbins & Myers Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Converters, Steel*Ill., Harvey*

Whiting Foundry & Equipment Co.

N. J., Burlington

United States Cast Iron Pipe & Foundry Co.

N. Y., New York City

MacGovern & Co., Inc., 114 Liberty St.

*Standard Tank Co., 15 Park Row

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Ohio, Youngstown

Pollock Co., W. B.

Pa., Sharon

Petroleum Iron Works Co.

Conveying Machinery*Ill., Aurora*

Barber-Greene Co.

Stephens-Adamson Mfg. Co.

Ill., Chicago

American Conveyor Co., 6611 Drexel Ave.

Brown Portable Conveying Machinery Co., 12 S. La Salle St.

Caldwell & Son Co., H. W., 17th St. and Western Ave.

Dull Co., Raymond W., 111 W. Washington St.

Link-Belt Co., W. 39th and Stewart Ave.

Raymond Bros. Impact Pulverizer Co. Weller Mfg. Co., 1820-1856 N. Kostner Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Ill., Decatur

Union Iron Works

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

American Tool & Machine Co., 10 High St.

Lamson Co., 100 Boylston St.

Sturtevant Mill Co., Harrison Sq.

Mich., Bay City

Bay City Foundry & Machine Co.

Garland Co., M.

Mich., Detroit

American Blower Co.

Mich., Saginaw

Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.

Mo., St. Louis

Alvey Mfg. Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

Hepworth Co., S. S., 2 Rector St.

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

N. Y., West New Brighton, Staten Island

Hunt Co., Inc., C. W.

Ohio, Cincinnati

Alvey-Ferguson Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Tiffin

Webster Mfg. Co.

Pa., Philadelphia

Philadelphia Tramrail Co., Front and Tusculum Sts.

Specialty Engineering Co., Allegheny and Trenton Aves.

Wis., Milwaukee

Chain Belt Co., 734 Park St.

Conveying Systems*Md., Baltimore*

Bartlett, Hayward Co

Mich., Kalamazoo

Clarage Fan Co

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

Conveying Systems, Pneumatic*Mich., Saginaw*

Allington & Curtis Mfg. Co., 402 Holden St.

N. Y., New York City

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Conveyors, Apron*Ill., Aurora*

Stephens-Adamson Mfg. Co.

Ill., Chicago

Link-Belt Co., W. 39th and Stewart Ave.

Mass., Boston

Lamson Co., 100 Boylston St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Tiffin

Webster Mfg. Co.

Conveyors, Apron, Power*Mo., St. Louis*

Alvey Mfg. Co.

Conveyors, Bag*Ill., Aurora*

Barber-Greene Co

Stephens-Adamson Mfg. Co.

Ill., Chicago

Link-Belt Co., W. 39th and Stewart Ave.

Mass., Boston

Lamson Co., 100 Boylston St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Belt*Del., Wilmington*

Walker & Elliot, Inc.

Ill., Aurora

Barber-Greene Co.

Stephens-Adamson Mfg. Co.

*Ill., Chicago*Caldwell & Son Co., H. W., 17th St.
and Western Ave.Link-Belt Co., W. 39th St. and Stewart
Ave.Weller Mfg. Co., 1820-1856 N. Kostner
Ave.*Mass., Boston*

Lamson Co., 100 Boylston St.

*Mich., Saginaw*Werner & Pfeiderer Co., 1260 N. Ni-
agara St.*Mo., St. Louis*

Alvey Mfg. Co.

*N. Y., New York City*Buchanan Co., Inc., C. G., 90 West St.
National Leather Belting Co., Inc.,
342 E. 38th St.Robbins Conveying Belt Co., Park
Row Bldg.Worthington Pump & Machinery
Corp., 113 Broadway*Ohio, Akron*

Goodrich Co., B. F.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Tiffin

Webster Mfg. Co.

*Pa., Philadelphia*Haslett Spiral Chute Co., 1937 W.
Tioga St.**Conveyors, Bucket***Ill., Aurora*

Stephens-Adamson Mfg. Co.

*Ill., Chicago*Caldwell & Son Co., H. W., 17th St.
and Western Ave.Link-Belt Co., W. 39th St. and Stewart
Ave.Weller Mfg. Co., 1820-1856 N. Kostner
Ave.*Mass., Boston*

Sturtevant Mill Co., Harrison Sq.

Mass., East Boston

Mead Morrison Mfg. Co.

Md., Baltimore

Codd Co., E. J., 700 S. Caroline St.

N. Y., West New Brighton, Staten Island

Hunt Co., Inc., C. W.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Wis., Milwaukee

Chain-Belt Co., 734 Park St.

Conveyors, Chain*Ill., Chicago*Caldwell & Son Co., W. H., 17th St.
and Western Ave.Link-Belt Co., W. 39th St. and Stewart
Ave.

Weller Mfg. Co., 1822 N. Kostner Ave.

Mass., Boston

Lamson Co., 100 Boylston.

Mo., St. Louis

Alvey Machinery Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Tiffin

Webster Mfg. Co.

Conveyors, Coal (*see Conveyors, Ore*)**Conveyors, Cottonseed Oil Ma-
chinery***Ohio, Columbus*

Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Flight*Ill., Aurora*

Stephens-Adamson Mfg. Co.

*Ill., Chicago*Caldwell & Son Co., W. H., 17th St.
and Western Ave.*Ohio, Columbus*

Bartlett & Snow Co., C. O.

Ohio, Tiffin

Webster Mfg. Co.

Conveyors, Gravity*Del., Wilmington*

Walker & Elliott, Inc.

Ill., Aurora

Stephens-Adamson Mfg. Co.

*Ill., Chicago*Caldwell & Son Co., W. H., 17th St.
and Western Ave.Link-Belt Co., W. 39th St. and Stewart
Ave.*Mass., Boston*

Lamson Co., 100 Boylston St.

Mo., St. Louis

Alvey Machinery Co.

Ohio, Columbus

Jeffrey Machine Co.

Ohio, Tiffin

Webster Mfg. Co.

Pa., Ellwood City

Mathews Gravity Carrier Co.

*Pa., Philadelphia*Haslett Spiral Chute Co., 1937 W.
Tioga St.

Conveyors, Link Belt*Ill., Chicago*

Link-Belt Co., W. 39th St. and Stewart Ave.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Ore*Colo., Denver*

Colorado Iron Works Co.

Ill., Chicago

Caldwell & Son Co., W. H., 17th St. and Western Ave.

Link-Belt Co., W. 39th St. and Stewart Ave.

Weller Mfg. Co., 1822 N. Kostner Ave.

Mass., East Boston

Mead-Morrison Mfg. Co.

Mo., St. Louis

Alvey Mfg. Co.

N. Y., New York City

Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Conveyors, Pan (*see Conveyors, Bucket Apron*)**Conveyors, Portable***Ill., Chicago*

Brown Portable Conveying Machinery Co., 10 S. La Salle St.

Link-Belt Co., W. 39th St. and Stewart Ave.

Ohio, Columbus

Jeffrey Mfg. Co.

Conveyors, Power Driven Roller*Mass., Boston*

Lamson Co., 100 Boylston St.

Conveyors, Screw*Ill., Aurora*

Stephens-Adamson Mfg. Co.

Ill., Chicago

Caldwell & Son Co., H. W., 17th St. and Western Ave.

Link-Belt Co., W. 39th St. and Stewart Ave.

Weller Mfg. Co., 1820-1856 N. Kostner Ave.

Mass., Boston

American Tool & Machine Co., 10 High St.

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Tiffin

Webster Mfg. Co.

Wis., Milwaukee

Chain-Belt Co., 734 Park St.

Conveyors, Scraper*Ohio, Tiffin*

Webster Mfg. Co.

Conveyors, Slat*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Conveyors, Special*Mass., Boston*

Lamson Co., 100 Boylston St.

Mo., St. Louis

Alvey Mfg. Co.

Conveyors, Sweep-off*Mass., Boston*

Lamson Co., 100 Boylston St.

Conveyors, Traveling Pan*Ohio, Columbus*

Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Tray (Automatic)*Mass., Boston*

Lamson Co., 100 Boylston St.

Conveyors, Vibrating*N. Y., New York City*

Hepworth Co., S. S., 2 Rector St.

Cookers (*see Digestors*)**Coolers, Acid***Mass., Boston*

Badger & Sons Co., E. B.

Lummus Co., Walter E.

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. Y., New York City

Dunton Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pa., Philadelphia

Blair Campbell & McLean, Inc., Colonial Trust Bldg.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Coolers, Air*Ill., Chicago*

Drying Systems, Inc., 320 Michigan Ave.

N. Y., Buffalo

Buffalo Forge Co.

Buffalo Foundry & Machine Co.

N. Y., New York City

Carrier Engineering Corporation, 39 Cortlandt St.

Worthington Pump & Machinery Corp.

Coolers, Ammonia (*see Refrigerating Machinery*)**Coolers, Brine** (*see Refrigerating Machinery*)**Coolers, Charcoal***Mich., Muskegon*

Muskegon Boiler Works, Eighth St.

Coolers, Generator*Ill., Chicago*

Drying Systems, Inc., 320 Michigan Ave.

N. Y., New York City

Carrier Air Conditioning Co., 39 Cortlandt St.

Coolers, Glass Enameled*N. Y., Rochester*

Pfaudler Co.

Ohio, Elyria

Elyria Enameled Products Co.

Coolers, Oil*N. Y., New York City*

American Spray Co., 26 Cortlandt St.

Pa., Carbondale

Carbondale Machine Co.

Coolers, Roasted Oars*Colo., Denver*

Colorado Iron Works Co.

Coolers, Rotary*Ohio, Alliance*

Reeves Bros. Co., 338 Rush St.

Coolers, Tubular*Conn., Hartford*

Whitlock Coil Pipe Co.

Coolers, Water*N. Y., New York City*

Cordley & Hayes, 7 Leonard St.

Ohio, Akron

U. S. Stoneware Co.

Cooling Ponds*N. Y., Buffalo*

Carrier Air Conditioning Co., 490 Broadway

Cooling Ponds, Spray*N. Y., New York City*

American Spray Co., 26 Cortlandt St.

Pa., Philadelphia

Schutte & Koerting Co., 12th and Thompson Sts.

Cooling Systems*Ill., Chicago*

Drying Systems, Inc., 320 Michigan Ave.

Swenson Evaporator Co., 945 Monadnock Bldg.

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

Spray Engineering Co., 93 Federal St.

Mass., Fall River

Scott & Co., Ernest

Mich., Detroit

Detroit Heating & Lighting Co.

N. J., Carteret

Wheeler Condenser & Engineering Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Forge Co., 490 Broadway

Buffalo Foundry & Machine Co.

Devine Co., J. P.

Sowers Mfg. Co.

Zaremba Co., Niagara Life Ins. Co. Bldg.

N. Y., New York City

Carrier Air Conditioning of America, 490 Broadway

Carrier Engineering Corporation, 39 Cortlandt St.

De La Vergne Machine Co.

General Ceramics Co., 50 Church St.

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Sanborn Evaporator Co., 50 Broad St.

Sidio Co. of America, 37 Murray St.

Van Emden Co., H., 145 W. 45th St.

Thermal Syndicate, Ltd., 50 E. 41st St.

N. Y., Rochester

Pfaudler Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Cincinnati

Triumph Lee Machine Co.

Pa., Philadelphia

Stokes Machine Co., F. J.

Pa., Williamsport

Valley Iron Works

Cooperage Stock*N. Y., Niagara Falls*

International Cooperage Co., Inc., Erie Ave. and 9th St.

Coping Machines*Ill., Moline*

Williams, White & Co.

N. Y., New York City

Niles-Bement-Pond Co., 111 Broadway

Ohio, Hamilton

Long & Allstatter Co.

Copper Equipment*Mass., Boston*

Badger & Sons Co., E. B., 75 Pitts St.

Mich., Detroit

Detroit Heating & Lighting Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Devine Co., J. P.

Zaremba Co., Niagara Life Ins. Co.
Bldg.*N. Y., New York City*

Gerdes & Co., Inc., 40 Church St.

Hungerford Brass & Copper Co., U. T.
84 La Fayette St.*Pa., Philadelphia*Stokes Machine Co., F. J., 17th and
Cambria Sts.**Cord, Waterproof***N. Y., Auburn*Columbian Rope Co., 3050-75 Genesee
Ave.*Ohio, Akron*

Goodrich Co., B. F.

R. I., Providence

Davol Rubber Co.

Cores, Armature and Magnet*Pa., East Pittsburgh*

Westinghouse Electric Mfg. Co.

Cores, Electric Furnace*N. Y., Niagara Falls*

Carbonadium Co.

Cores, Electric Furnaces, Alundum*Mass., Worcester*

Norton Co., New Bond St.

Cork Board*Minn., Winona*

Union Fibre Co.

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

**Corkboard, Insulation, Non-
pareil***Pa., Pittsburgh*Armstrong Cork & Insulating Co., 122
24th St.**Cork Machinery***Mich., Saginaw*

Werner & Pfeiderer, Inc.

*Pa., Pittsburgh*Armstrong Cork & Insulation Co., 122
24th St.**Corks, Bottle Crown***Md., Baltimore*

Crown Cork & Seal Co.

N. Y., Brooklyn

Mundet & Son, L., King and Ferris St.

N. Y., New York City

Farrell, W. J., 115 Maiden Lane

Corks, Brewers and Bottlers*Conn., Norwich*

Thames Cork Co.

Md., Baltimore

Crown Cork & Seal Co.

*Pa., Pittsburgh*Armstrong Cork Co., 23d and Alle-
gheny Ave.**Corks, Chemists***Ill., Chicago*

*Daigger & Co., A., 52-56 W. Kinzie St.

*N. J., Vineland*Doerr Glass Co., Peach St. and Boule-
vard*N. Y., Corning*

Corning Glass Works

*Pa., Philadelphia**Thomas Co., Arthur H., 238 W. Wash-
ington Sq.*Pa., Pittsburgh*Armstrong Cork Co., 23d and Alleghany
Ave.*Pa., Rochester*

Fry Co., H. C.

Corks, Rubber*Conn., Bridgeport*

Canfield Rubber Co., 129 Garden St.

*Ill., Chicago**Daigger & Co., A., 52-56 W. Kinzie
St.*N. Y., New York City*N. Y. Belting & Packing Co., 91 Cham-
bers St.*Ohio, Cleveland*

Cleveland Rubber Co., Lisbon Road

Pa., Philadelphia

Whitall-Tatum & Co., 410 Race St.

*Thomas Co., Arthur H., 238 W. Wash-
ington Sq.*R. I., Providence*

Davol Rubber Co.

Corkwood*N. Y., New York City*

Farrell, W. J., 115 Maiden Lane

Corundum Wheels (*see Grinding Wheels*)**Cottonseed Oil Mill Machinery***Ala., Birmingham*

Continental Gin Co.

Del., Wilmington

Pusey & Jones Co.

Ga., Atlanta

Atlanta Utility Works

Ill., Chicago

Kaestner & Hecht Co.

Link-Belt Co., W. 39th St. and Stewart Ave.

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Dayton

Platt Iron Works Co.

Texas, Dallas

Murray Co.

Cottrell Installations, Electrical Equipment for Use With*N. Y., New York City*

Research Corporation, 63 Wall St.

Counterbores*N. Y., New York City*

Pratt & Whitney Co., 111 Broadway

Ohio, Cleveland

Cleveland Twist Drill Co.

Counters*N. Y., Brooklyn*

Schaeffer & Budenberg Mfg. Co.

Berry and S. 5th Sts.

Counters, Indication*Conn., Waterbury*

Bristol Co.

Mass., Athol

Starrett Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co.

Crosby Steam Gauge & Valve Co.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., Brooklyn

Taghlabuc Mfg. Co., C. J.

N. Y., New York City

U. S. Gauge Co., 67 Wall St.

N. Y., Rochester

Knowlton Co., M. D.

Couplings, Brass*Ill., Chicago*

Crane Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Wilfert Co., John, 259 Broadway

Ohio, Cincinnati

Lunkenheimer Co., Beekman and Waverly Sts.

Pa., Pittsburgh

National Tube Co.

Couplings, Flexible*Conn., Waterbury*

American Metal Hose Co.

Ill., Chicago

Caldwell & Son Co., W. H., 17th St. and Western Ave.

National Hose Coupling Co., People's Gas Bldg.

Ohio, Tiffin

Webster Mfg. Co.

Pa., Pittsburgh

Jones & Laughlin Steel Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Couplings, Hose*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

Ind., Connersville

Connersville Blower Co.

Mass., Boston

Claffin Co., C. A., 161 High St.

N. Y., Brooklyn

Bliss Co., E. W., 19 John St.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Wilfert Co., John, 259 Broadway

Couplings, Shaft*Ill., Aurora*

Stephens-Adamson Co.

Ill., Chicago

Caldwell & Son Co., H. W., 17th St. and Western Ave.

Fairbanks-Morse & Co., 900 S. Wabash Ave.

Link-Belt Co., W. 39th St. and Stewart Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Tiffin

Webster Mfg. Co.

Pa., Philadelphia

Sellers & Co., Inc., Wm., 1600 Hamilton St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Coverings, Asbestos*Ill., Chicago*

Crane Co., 836 S. Michigan Ave.

N. Y., New York City

Johns-Manville Co., Madison Ave. and 41st St.

Ohio, Lockland

Carey Mfg. Co., Philip

Pa., Ambler

Keasbey & Mattison Co.

Pa., Erie

Watson Co., H. F.

Pa., Franklin

Franklin Mfg. Co.

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Coverings, Cork*Pa., Pittsburgh*

Armstrong Cork & Insulation Co., 122 24th St.

Coverings, High Pressure*Pa., Pittsburgh*

Armstrong Cork & Insulation Co., 122 24th St.

Covers, Assay Clay*N. J., Jersey City*

Dixon Crucible Co., Joseph

Covers, Assay Sand*N. J., Jersey City*

Dixon Crucible Co., Joseph

Covers, Glass*N. Y., Corning*

Corning Glass Works

N. Y., New York City

Eimer & Amend, 3d Ave., 18th to 19th St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Whitall-Tatum Co.

Covers, Graphite*N. J., Jersey City*

Dixon Crucible Co., Joseph

Covers, Stoneware*N. J., Newark*

Hanson & Van Winkle Co., 269 Oliver St.

Ohio, Akron

U. S. Stoneware Co.

Covers, Tower, Stoneware*N. Y., New York City*

Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Cranes, Bracket*Ill., Harvey*

Whiting Foundry Equipment Co.

Cranes, Bucket Handling*Ill., Harvey*

Whiting Foundry Equipment Co.

Cranes, Electric*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg

Link-Belt Co., W. 39th St. and Stewart Ave.

Ill., Harvey

Whiting Foundry Equipment Co.

Mich., Detroit

Northern Engineering Works

N. Y., New York City

Niles-Bement-Pond Co., 111 Broadway

Ohio, Cleveland

Brown Hoisting Machinery Co.

Wellman, Seaver, Morgan Co.

Cranes, Gantry*Ill., Harvey*

Whiting Foundry Equipment Co.

Cranes, Grab Bucket*Ill., Chicago*

Link-Belt Co., W. 39th St. and Stewart Ave.

Mich., Detroit

Northern Engineering Works

Cranes, Handpower Traveling*Ill., Harvey*

Whiting Foundry Equipment Co.

Cranes, Hand Traveling*Mich., Detroit*

Northern Engineering Works

Cranes, Jib*Ill., Harvey*

Whiting Foundry Equipment Co.

Cranes, Locomotive*Ill., Batavia*

U. S. Wind Engine & Pump Co., 30 Water St.

Ill., Chicago

Link-Belt Co., W. 39th St. and Stewart Ave.

Mich., Bay City

Industrial Works

Ohio, Cleveland

Brown Hoisting Machinery Co.

Cranes, Pillar*Ill., Harvey*

Whiting Foundry Equipment Co.

Cranes, Special*Ohio, Cleveland*

Wellman-Seaver-Morgan Co.

Cranes, Transfer*Ill., Harvey*

Whiting Foundry Equipment Co.

Creosoting Machinery*Mass., Boston*

Badger & Sons Co., E. B., 75 Pitts St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Devine Co., J. P.

Crucible, Clay Lined*Pa., Pittsburgh*

McCullough-Dalzell Crucible Co.

Crucible Machinery*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Crucibles, Acid Proof*N. Y., New York City*

Duriron Castings Co., 90 West St.

Crucibles, Alundum*Mass., Worcester*

Norton Co., New Bond St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

Pa., Philadelphia

*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Black Lead (*see Crucibles, Graphite*)**Crucibles, Carbon***Ohio, Cleveland*

National Carbon Co., Madison and Highland Aves.

Crucibles, Clay*Colo., Denver*

Denver Fire Clay Co.

N. J., Jersey City

Dixon Crucible Co., Joseph

N. Y., New York City

Mine & Smelter Supply Co., 42 Broadway

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Ohio, Cleveland

National Carbon Co.

Utah, Salt Lake City

Utah Fire Clay Co.

Crucibles, Copper*Pa., Philadelphia*

Boekel & Co., Wm., 518 Vine St.

Pa., Pittsburgh

McCullough-Dalzell Crucible Co.

Crucibles, Fused Silica*N. Y., New York City*

*Eimer & Amend, 205-211 3d Ave.

Sidio Co. of America, 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Pa., Philadelphia

*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Gooch*Ohio, Zanesville*

Ohio Pottery Co., Dearborn St.

Crucibles, Graphite*Cal., San Francisco*

*Braun-Knecht-Heimann Co., 584 Mission St.

Colo., Denver

Denver Fire Clay Co.

Mine & Smelter Supply Co.

Conn., Bridgeport

Bridgeport Crucible Co.

Mo., St. Louis

*Heil Chemical Co., Henry, 216 S. 4th St.

N. J., Jersey City

Dixon Crucible Co., Joseph

Gautier & Co., J. H.

N. Y., Niagara Falls

International Acheson Graphite Co.

N. Y., New York City

*Bernard & Co., F. J., 70 Murray St.

*Eimer & Amend, 205-211 3d Ave.

*Gooble & Co., J., 129 Maiden Lane

Sidio Co. of America, Inc., 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Pa., Philadelphia

Ross-Tacony Crucible Co., Robbins and Mulner Sts.

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Carbondale

*Griebel Instrument Co.

Pa., Pittsburgh

McCullough-Dalzell Crucible Co.

Crucibles, Graphite Brazing*N. J., Jersey City*

Dixon Crucible Co., Joseph

Crucibles, Metal Melting

Conn., Bridgeport
Bridgeport Crucible Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Trenton
Bartley Crucible Co., J.
N. Y., New York City
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Ross-Tacony Crucible Co., Robbins
and Milner, Tacony
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Platinum

Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Newark
American Platinum Works, 225 New Jersey Railroad Ave.
Baker & Co., Murray and Austin Sts.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Porcelain

Colo., Golden
Herold China & Pottery Co
Mass., Cambridge
Guinesey Earthenware Co
N. Y., Rochester
Will Corporation
Ohio, Columbus
Laboratory Supply Co
Ohio, Zanesville
Ohio Pottery Co., Dearborn St

Crucibles, Porous, Filtering

Pa., Pittsburgh
Crucible Steel Co. of America

Crucibles, Rose

Ohio, Zanesville
Ohio Pottery Co., Dearborn St

Crucibles, Sand

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Goehle & Co., J., 129 Maiden Lane

Crucibles, Sheet Iron

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Crucibles, Sheet Nickel

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Crushers, Assayers

Cal., San Francisco
*Braun-Knecht-Heimann Co., 576 Mission St.
Colo., Denver
Colorado Iron Works Co
Denver Fine Clay Co.
Mine & Smelter Supply Co
N. Y., New York City
Abbe, Paul O., 39 Broad St
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Pittsburgh
Scientific Materials Co

Crushers, Cinder

N. Y., New York City
Hardinge Conical Mill Co., 120 Broadway

Crushers, Coal

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Colo., Denver
Colorado Iron Works Co
Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Stephens-Adamson Co
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Raymond Bros. Impact Pulverizer Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.

Mass., East Boston
Mead-Morrison Mfg. Co.

N. Y., Brooklyn
Kent Mill Co., 10 Rapelyea St
Moussette Co., Inc., O. J., 22-26 Clay St.

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
K. B. Pulverizer Co., Inc., 86 Worth St.

Worthington Pump & Machinery Corp., 113 Broadway
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.

Crushers, Coal—cont.*Ohio, Cleveland*

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Tiffin

Webster Mfg. Co.

*Pa., Philadelphia*Pennsylvania Crusher Co., Stephen
Girard Bldg.**Crushers, Coke** (*see Crushers, Coal*)**Crushers, Hammer***Ill., Chicago*Williams Patent Crusher & Pulverizer
Co., Old Colony Bldg.*Ohio, Cleveland*

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

*Pa., Philadelphia*Pennsylvania Crusher Co., Girard
Bldg.**Crushers, Hinged Hammer***Mass., Boston*

Sturtevant Mill Co.

Crushers, Jaw*Ill., Chicago Heights*

Chalmers & Williams, Inc.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

*N. Y., New York City**K-B. Pulverizer Co., Inc., 70 Worth
St.*Ohio, Columbus*

Jeffrey Mfg. Co., 904 N. 4th St.

Wis., Milwaukee

Allis-Chalmers Co.

Crushers, Laboratory*Cal., San Francisco**Braun-Knecht-Heimann Co., 576 Mis-
sion St.*Ill., Chicago*

Link-Belt Co.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

N. Y., New York City

Abbé, Paul O., 50 Church St.

*Eimer & Amend, 3d Ave., 18th to 19th
Sts.*Lenz Apparatus Co., Inc., 18 E. 16th
St.*Ohio, Cleveland*

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

*Pa., Philadelphia**Thomas Co., Arthur H., 238 W. Wash-
ington Sq.**Crushers, Ore and Rock** (*see**Crushers, Coal*)**Crushers, Phosphate Rock** (*see**Crushers, Coal*)*Ohio, Columbus*

Jeffrey Mfg. Co., 904 N. 4th St.

Crushers, Rock (*see Crushers, Coal*)**Crushers, Roll***Mass., Boston*

Sturtevant Mill Co.

*Pa., Philadelphia*Pennsylvania Crusher Co., Stephen
Girard Bldg.**Crushers, Rotary***Del., Wilmington*

Walker & Elliott, Inc.

*Ill., Chicago*Williams Patent Crusher & Pulverizer
Co., Old Colony Bldg.*Mass., Boston*

Sturtevant Mill Co., Harrison Sq.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Crushers, Single Roll*Ill., Chicago*

Link-Belt Co.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

*Pa., Philadelphia*Pennsylvania Crusher Co., Stephen
Girard Bldg.**Crushers, Slive***Ohio, Columbus*

Jeffrey Mfg. Co., 904 N. 4th St.

Crushers, Wood Pulp*Ill., Chicago*

Stroud & Co., E. H., 928 Fullerton Ave.

Williams Patent Crusher & Pulverizer
Co., Old Colony Bldg.*N. Y., Carthage*

Carthage Machine Co.

Crushing Machinery (*see Crushers,*
Specific Headings)*N. Y., New York City*Hardinge Conical Mill Co., 120 Broad-
way

Crystal Washing Equipment

N. Y., New York City
Dorr Co., 101 Park Ave.

Crystallizers

Del., Wilmington
Posey & Jones Co.

Ill., Batavia
Sperry & Co., D. R.

Md., Baltimore
Bartlett-Hayward Co.

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Mass., Fall River
Scott & Co., J. P.

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

N. Y., New York City
Zaremba Co., Morgan Bldg.
Dover Boiler Works, 50 Church St.
General Ceramics Co., 50 Church St.

N. Y., Rochester
Pfaudler Co., The

Pa., Coatesville
Coatesville Boiler Works

Pa., Philadelphia
Stokes Machine Co., F. J.
*Thomas Co., Arthur H. W. Washington Sq.

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Culture Propagating Apparatus

Ill., Chicago
Mojonner Bros. Co., 833 W. Jackson Blvd.

Cupel Machines

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.

Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.

Cupels, Clay

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway

Cupels, Sand

Colo., Denver
Denver Fire Clay Co.

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway

Cupola Charging Machines

Ill., Harvey
Whiting Foundry Equipment Co.

Cupolas

Ill., Harvey
Whiting Foundry Equipment Co.

Mich., Detroit
Northern Engineering Works

N. Y., New York City
Worthington Pump & Machinery Corporation, 115 Broadway

Cups, Alcohol

Ohio, Cambridge
Cambridge Glass Co.

Cups, Benzine

Ohio, Cambridge
Cambridge Glass Co.

Cups, Leather

N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Cups, Oil and Grease

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Cups, Paper

Mass., Boston
American Water Supply Co., 251 Causeway St.

Cups, Porous

Colo., Golden
Herold China & Pottery Co.
Mass., Worcester
Norton Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Cushions

Ohio, Akron
Goodrich Co., B. F.
Ohio, Youngstown
Republic Rubber Co.
Pa., Jeannette
Pennsylvania Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co.
R. I., Providence
Davol Rubber Co.

Cutters*Ill., Chicago*

Sullivan Machinery Co., 121 S. Michigan Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Ill., Rockford

Ingersoll Milling Machine Co.

Mass., Athol

Union Twist Drill Co.

Mass., Boston

Becker Milling Machine Co., Hyde Park

Mass., New Bedford

Morse Twist Drill & Machine Co.

Mich., Detroit

Detroit Twist Drill Co., 634-646 Fort West

National Twist Drill & Tool Co.

N. Y., New York City

Abbé, Paul O., 50 Church St.

Provost Engineering Corp., 220 Broadway

Ohio, Cleveland

Standard Tool Co.

Ohio, Toledo

Toledo Drill & Tool Co.

R. I., Providence

Brown & Sharpe Mfg. Co.

Cutters, Ore (*see Cutters, Coal*)**Cutters, Oxyacetylene***Mass., Boston*

General Welding & Equipment Co., 107 Massachusetts Ave.

Cutters, Oxyhydrogen*Mass., Boston*

General Welding & Equipment Co., 107 Massachusetts Ave.

Cutters, Rotary*N. Y., New York City*

Abbe Engineering Co., 220 Broadway

Abbé, Paul O., 50 Church St.

Beach-Russ Co., 220 Broadway

Cutting Outfits (*see Welding Apparatus*)**Cyanide Machinery***Cal., Los Angeles*

Llewellyn Iron Works, No. Main and Redondo Sts.

Pacific Tank & Pipe Co.

Cal., San Francisco

Braun-Knecht-Heimann Co., 584 Mission St.

Oliver Continuous Filter Co., 505 Market St.

Pacific Tank & Pipe Co., 5th and Bryant Sts.

Redwood Mfg. Co., Hobart Bldg.

Western Pipe & Steel Co. of Cal., 444 Market St.

Colo., Denver

Colorado Iron Works Co.

Mine & Smelter Supply Co.

Stearns-Roger Mfg. Co., 1718 California St.

Ill., Chicago Heights

Chalmers & Williams, Inc.

Md., Maryland

Bartlett-Hayward Co.

N. Y., Brooklyn

United Filters Corporation

N. Y., New York City

Dorr Co., The, 17 Battery Pl.

Mine & Smelter Supply Co., 42 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Cyanide Plants and Equipment*(see Cyanide Machinery)***Cyclometers***Conn., Hartford*

Veeder Mfg. Co.

Pa., Philadelphia

Brown Instrument Co., Wayne and Windrom Sts.

Cylinders, Acetylene*N. Y., New York City*

Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Ammonia*N. J., Jersey City*

Koven & Bro., L. O.

N. Y., New York City

Durnon Castings Co., 90 West St.

Welding Supply Co., Inc., 132 Nassau St.

Pa., Fullerton

Fuller Lehigh Co.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Cylinders, Artesian Well*Ill., Aurora*

American Well Works

Cylinders, Chlorine*N. Y., New York City*

Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Cast Iron*Ill., Aurora*

American Well Works

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Winchester Ave.

N. Y., New York City

Duriron Castings Co., 90 West St.

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Pittsburgh

National Tube Co.

Cylinders, Creosoting*N. J., Jersey City*

Keven & Bro., H. O., 154 Ogden Ave.

Cylinders, Dripping*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Cylinders, Drying, Mixing, Roasting*Colo., Denver*

Colorado Iron Works Co.

Cylinders, for Compressed Gases*Ill., Chicago*

Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Pa., Philadelphia

Janney Steinmetz Co.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Cylinders, Glass, Graduated*England, Birmingham*

Belchers (Standley) & Mason, Ltd., Church St.

N. J., Millville

International Glass Co.

N. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

N. Y., Rochester

Will Corporation

Ohio, Cambridge

Cambridge Glass Co.

Pa., Coatesville

Coatesville Boiler Works

Pa., Philadelphia

*Thomas Co., Arthur H., 238 W. Washington Sq.

Whitall-Tatum Co.

Pa., Pittsburgh

Macbeth Evans Glass Co.

Scientific Materials Co., 717 Forbes St.

Pa., Rochester

Fry Co., H. C.

Cylinders, Oil Lubricating*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Cylinders, Steel*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Dairy Machinery*Ill., Chicago*

Barber Creamery Supply Co.

Creamery Package Mfg. Co., 61-67 W. Kinzie St.

Nafis, Inc., Louis F., 544 Washington Blvd.

Ill., North Chicago

Davis-Watkins Dairyman's Mfg. Co.

Iowa, Cedar Rapids

Cherry Co., J. G.

Iowa, Waterloo

Associated Mfrs. Co.

Northey Mfg. Co.

Mo., St. Louis

Barry-Wehmiller Machinery Co.

N. Y., Buffalo

Rice & Adams Corp.

N. Y., Little Falls

Burrell & Co., D. H.

N. Y., Long Island City

Jensen Creamery Machinery Co.

N. Y., New York City

De Laval Separator Co.

*Eimer & Amend, 3d Ave., 18th to 19th St.

Welding Supply Co., Inc., 132 Nassau St.

Wisner Mfg. Co.

N. Y., Rochester

Pfaudler Co., The.

Ohio, Canton

Advance Dairy Machinery Co.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Philadelphia

Reid Creamery and Dairy Supply Co., A. H.

*Thomas Co., Arthur H., West Washington Sq.

Pa., West Chester

Sharples Separator Co.

Wis., Milwaukee

Milwaukee Dairy Supply Co.

Vilter Mfg. Co.

De-ammoniators

Mich., Detroit
Steere Engineering Co., Woodward Ave.

Decolorizers, Glass

Ind., Terre Haute
Turner Brothers Co.

Decolorizers, Seleno

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Defecators (*see Sugar Machinery*)**Defecators, Sugar**

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Degreasing Plants

Mass., Cambridge
Little Co., Arthur D., Charles River Rd.

Mass., Fall River
Scott & Co., Ernest

Mo., St. Louis
Brecht Co.

N. Y., New York City
Garrigue & Co., Wm., 154 Nassau St.

Ohio, Cleveland
Bartlett & Snow Co., C. O.

Pa., Philadelphia
Kutztown Foundry & Machine Co., 1421 Chestnut St.

Dehumidifying Apparatus

Ill., Chicago
Drying Systems, Inc., 320 N. Michigan Ave.

Mich., Detroit
American Blower Co., 1400 Russell Ave.

N. Y., Buffalo
Buffalo Forge Co., 490 Broadway

N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.

Delineascopes

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.

Demijohns

Cal., San Francisco
Illinois-Pacific Glass Co., 15th and Folsom Ave.

Ill., Alton
Illinois Glass Co.

N. Y., New York City
White, Fred C., 241 Water St.

Ohio, Springfield
Ridgely Trimmer Co.

Denitrators

Mass., Fall River
Scott & Co., Ernest

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

N. Y., New York City
Duriron Castings Co., 90 West St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 57 E. 41st St.

Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Deodorizers

Ill., Chicago
Allbright-Nell Co., 5223 Southwestern Blvd.

N. Y., New York City
Kny-Scheerer Co., 404 W. 27th St.
West Disinfecting Co., Inc., 411 5th Ave.

Pa., Erie
American Sterilizer Co.

Derricks

Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.

Mich., Detroit
Northern Engineering Works

Minn., Minneapolis
Minneapolis Steel & Machinery Co.

N. Y., Niagara Falls
Dobbie Foundry & Machine Co.

Desiccator, Atwater's

N. Y., Rochester
Will Corporation

Desiccators

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.

Pa., Carbondale
Griebel Instrument Co.

Destructors, Refuse

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.

Ill., Kewanee
Kewanee Boiler Co.

N. Y., New York City
Griscom-Russell Co., 80 West St.

Ohio, Cleveland
Bartlett & Snow Co., C. O.

Pa., Pittsburgh
Ruud Mfg. Co.

Wis., Milwaukee
Kerner Incinerator Co.

Detarrers, Electrical*Mich., Detroit*

Steere Engineering Co., Woodward Ave.

Detinning*N. Y., New York City*Metal & Thermit Corp., 120 Broadway
Pa., Pittsburgh

Republic Chemical Co., Neville Island

Devulcanizers*Conn., Ansonia*

Farrell Foundry & Machine Co.

Ohio, Akron

Biggs Boiler Works Co.

Dewatering Apparatus*Colo., Denver*

Colorado Iron Works Co.

Ill., Chicago Heights

Chalmers & Williams, Inc.

N. Y., New York City

Don Co., 101 Park Ave.

Utah, Salt Lake City

United Filters Corp.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Dials*Conn., Waterbury*

Waterbury Clock Co.

Del., Wilmington

Du Pont de Nemours Co., E. I.

Dialyzers*N. Y., Rochester*

Will Corporation

Diamonds, Industrial*N. Y., New York City*

*Diamond Drill Carbon Co., 53-63 Park Row.

Diaphragms, Acid Proof*Mass., Boston*

Boston Belting Co.

N. Y., New York City

Gutta Percha & Rubber Mfg. Co., 127 Duane St.

N. Y., Rochester

General Filtration Co., Inc., Cutler Bldg.

Ohio, Akron

Goodrich Co., B. L.

Pa., Philadelphia

Omaha City Rubber Co.

Diaphragms, Acid Proof, Electro-Filtros*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Die Castings*Mo., St. Louis*

Hoyt Metal Co., 300 N. Broadway

Dies, Clay*Ohio, Bucyrus*

American Clay Machinery Co.

Dies, Soap*N. Y., Brooklyn*

Houchin-Aiken Co.

N. Y., Buffalo

Sowers Mfg. Co.

Diffusers*N. Y., New York City*

International Process Co., 5 Beekman St.

N. Y., Rochester

General Filtration Co., Inc.

N. Y., Schenectady

General Electric Co.

Digesters*Del., Wilmington*

Posey & Jones Co.

England, Deepfields, nr. Bilston, Staffs.

Cannon Iron Foundries, Ltd.

England, Stanningley, nr. Leeds

Leeds & Bradford Boiler Co., The

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Allbright-Nell Co.

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummas Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mich., Detroit

Detroit Heating & Lighting Co.

Mich., Saginaw

Werner & Pfeiderer, Inc.

Wickes Boiler Co.

N. J., Burlington

Stuart & Peterson Co.

United States Cast Iron Pipe & Foundry Co.

N. J., Carteret

Wheeler Condenser and Engineering Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*N. Y., Buffalo*Buffalo Forge Co., 491 Broadway
Buffalo Foundry & Machine Co., 20 Winchester Ave.

Devine Co., J. P., 1372 Clinton St.

Zarembo Co., Morgan Bldg.

Digesters—cont.**N. Y., New York City**

American Process Co., 68 William St.

Dover Boiler Works, 50 Church St.

Eimer & Amend, 205-211 3d Ave.

International Process Co., 5 Beekman St.

Roos Sons, August, 429 E. 91st St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Elyria

Elyria Enameled Products Co.

Ohio, Leetonia

Leetonia Boiler Co., Kunkel Bldg.

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Allentown

Traylor Eng. & Mfg. Co.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Digesters, Copper**Mass., Boston**

Badger & Sons Co., E. B., 75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Forge Co., 491 Broadway

Buffalo Foundry & Machine Co., 26

Winchester Ave.

Devine Co., J. P., 1372 Clinton St

Zaremba Co., Morgan Bldg.

N. Y., New York City

Gerdes & Co., Inc., 40 Church St.

Ohio, Cincinnati

American Copper & Brass Works

Digesters, Glass Enameled**N. Y., Rochester**

Pfaudler Co.

Digesters, Lead Lined**Mass., Boston**

Badger & Sons Co., E. B., 75 Pitts St.

N. Y., New York City

United Lined Tube & Valve Co., 111 Broadway

Digesters, Welded Steel**N. Y., New York City**

Kellogg Co., The M. W., 90 West St.

Digging Machinery**Ill., Chicago**

Austin Mfg. Co., 910 S. Michigan Ave.

Link-Belt Co., W. 39th St. and Stewart Ave.

N. Y., New York City

Hayward Co., 50 Church St.

Ohio, Marion

Marion Steam Shovel Co.

Dilators**N. J., Vineland**

Doerr Glass Co., Peach St. and Boulevard

Dimethylanilin Plants**Mass., Cambridge**

Little Co., Arthur B., Charles River Rd.

N. Y., Buffalo

Buffalo Foundry & Forge Co.

Devine Co., J. P.

Dippers, Graphite**N. J., Jersey City**

Dixon Crucible Co., Joseph

Direct Process for Ammonium Sulphate**Md., Baltimore**

Bartlett, Hayward Co.

Pa., Pittsburgh

Koppers Co., H.

Discs, Alundum, for Filtering**Mass., Worcester**

Norton Co., New Bond St.

Discs, Graphite**N. Y., Niagara Falls**

Acheson Graphite Co.

International Acheson Graphite Co.

Discs, for Valves**Mass., Boston**

Boston Belting Co.

N. Y., New York City

Jenkins Brothers, 80 White St.

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Pa., Philadelphia

Quaker City Rubber Co.

Dish Covers, Petri**Ohio, Zanesville**

Ohio Pottery Co., Dearborn St.

Dishes, Alundum**Mass., Worcester**

Norton Co., New Bond St.

Dishes, Crystallizing, Stone-ware**Ill., Monmouth**

Western Stoneware Co.

N. Y., New York City

Graham Chemical Pottery Works, The

Charles, 986 Metropolitan Ave.

N. Y., Rochester

Will Corporation

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Dishes, Earthenware Cooking

Ill., Monmouth
Western Stoneware Co.
N. J., Flemington
Fulper Pottery Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Cambridge
Guernsey Earthenware Co.

Dishes, Evaporating

Col., Golden
Herold China & Pottery Co.
Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., Burlington
Stuart & Peterson Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate Ltd., The, 50 E. 41st St.
N. Y., Rochester
Pfaudler Co., The
Will Corporation
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Malvern
Bishop & Co. Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co.
Pa., Pittsburgh
MacBeth Evans Glass Co.
Scientific Materials Co., 711 Forbes St.
Pa., Rochester
Fry Glass Co., H. C.

Dishes, Flat Bottom
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, Form, Classen

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, for Milk, Sugar, Water and Wine Analysis

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, Petri

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Palo Co., 90 Maiden Lane
N. Y., Rochester
Will Corporation
Ohio, Cambridge
Cambridge Glass Co.
Ohio, East Akron
Knight, Maurice A.

Dishes, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., 54 Austin Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Dishes, Porcelain (see Porcelain Ware)**Dishes, Stender**

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Disinfectors

Ohio, Cambridge
Cambridge Glass Co.
N. Y., New York City
Hospital Supply Co., 53 5th Ave.
Kny-Scheerer Co., 404 W. 27th St.
West Disinfecting Co., Inc., 12 E. 42d St.

Disintegrating Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ind., Aurora
Stedmans Foundry & Machine Works
Mass., Boston
Holmes & Blanchard Co., 31 State St.

Disintegrators*Del., Wilmington*

Walker & Elliott, Inc.

Ill., Chicago

Link-Belt Co., W. 39th St. and Stewart Ave.

Raymond Bros., Impact Pulverizer Co., 1318 N. Branch St.

Stroud & Co., E. H., 928 Fullerton Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Md., Baltimore

Codd Co., E. J., 700 S. Caroline St.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

Mich., Saginaw

Werner & Pfleiderer, Inc.

N. Y., Brooklyn

Houchin-Aiken Co.

Johnson Co., John, 37th St. and 2d Ave.

N. Y., New York City

Abbe, Paul O., 30 Broad St.

Abbe Engineering Co., 220 Broadway

K. B. Pulverizer Co., 86 Worth St.

Ohio, Bucyrus

American Clay Machinery Co.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Disks, Perforated*N. Y., Rochester*

Will Corporation

Dissociators*Cal., Los Angeles*

Sirch, C. W., 126 W. 3d St.

Dissolvers*Md., Baltimore*

Bartlett, Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummas Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mich., Saginaw

Werner & Pfleiderer, 1260 N. Niagara St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

N. Y., New York City

Dorr Co., The, 17 Battery Pl.

General Ceramics Co., 50 Church St.

Pa., Coatesville

Coatesville Boiler Works

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Dissolvers, Blanc Fixe*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, China Clay*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, Glue*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Dissolvers, Salts*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, Satin White*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Distilling Apparatus (see also Stills)*Ill., Batavia*

Sperry & Co., D. R.

Ill., Chicago

*Daigger & Co., A., 52-56 W. Kinzie St.

*Central Scientific Co., 460 E. Ohio St.

*Schaar & Co., 1025 S. State St.

Ill., Chicago

Swenson Evaporator Co., 945 Monadnock Bldg.

Md., Baltimore

Bartlett, Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

Lummas, Walter E., 88 Broad St.

Mich., Detroit

Detroit Heating & Lighting Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

Sowers Mfg. Co., 1300 Niagara St.

Distilling Apparatus—cont.*N. Y., New York City*

*Eimer & Amend, 205-211 3d Ave.

*Bernard & Co., F. J., 70 Murray St.

General Ceramics Co., 50 Church St.

Jacoby, Henry H., 95 Liberty St.

Sidio Co. of America, 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

N. Y., Rochester

Pfaudler Co., The

Ohio, Cincinnati

Vulcan Copper Works Co., 122 Sycamore St.

Ohio, Elyria

Elyria Enameled Products Co.

Ohio, Hamilton

Hamilton Copper & Brass Works

Pa., Philadelphia

Blair, Campbell & McLean Inc., Colonial Trust Bldg

Oat & Sons, Jos., 230 Quarry St.

Ott Co., George F., 213 Buttonwood St.

Stokes Machine Co., F. J.

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Wis., Milwaukee

Vilter Mfg. Co.

Distilling Equipment (see Stills)**Distributors, for Loading Tanks***Colo., Denver*

Colorado Iron Works Co.

Diving Apparatus*Ill., Chicago*

*Elmer, H. N., 53 W. Jackson Blvd.

Doors, Discharge*Colo., Denver*

Colorado Iron Works Co.

Doors, Oven*Ill., Batavia*

Sperry & Co., D. R.

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Codd Co., E. J., 700 S. Caroline St.

Douches*Ohio, Cambridge*

Cambridge Glass Co.

Draft Apparatus (see Blowers and Fans)**Draft Equipment, Mechanical***Mich., Kalamazoo*

Clarage Fan Co.

Drafting Room Supplies*Ill., Chicago*

Pease Co., C. F., 219 W. Institute Pl.

Drafting Tables*Mich., Kewanee*

Kewanee Mfg. Co.

Drain Plugs, Chemetal*N. Y., L. I., Rockville Centre*

Nassau Valve & Pump Co., Inc.

Drains*Ala., Birmingham*

American Cast Iron Pipe Co.

Ill., Chicago

Illinois Malleable Iron Co.

Mo., St. Louis

Nelson Mfg. Co., 10th and Chestnut Sts.

N. J., Burlington

United States Cast Iron Pipe & Foundry Co.

N. Y., New York City

Mott Iron Works, 118 5th Ave.

Warren Foundry & Machine Co., 11 Broadway

Pa., Pittsburgh

Standard Sanitary Mfg. Co.

Drawing Instruments*Ill., Chicago*

Pease Co., C. F., 219 W. Institute Pl.

Dredges, Hydraulic*N. Y., Baldwinsville*

Morris Machine Works

Dredging Machinery*Cal., San Francisco*

Union Iron Works

Mich., Saginaw

Wickes Bros., 512 Water St.

N. Y., Baldwinsville

Morris Machine Works

N. Y., New York City

Hayward Co., 50 Church St.

Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Marion

Marion Steam Shovel Co.

Wis., South Milwaukee

Bucyrus Co.

Wis., Superior

Superior Iron Works Co.

Dressers, Emery Wheel*Ill., Chicago*

Chicago Wheel & Mfg. Co., 1101 W.
Monroe St.
Standard Screen Co., 79-85 Madison
Ave., E.

Ind., Indianapolis

Atkins & Co.

Mass., Worcester

Worcester Pressed Steel Co.

N. Y., New York City

Acme Diamond Tool Co., 56 Liberty
St.

*Diamond Drill Carbon Co., 53-63
Park Row

N. Y., Niagara Falls

Carborundum Co.

Drills, Coal*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher
Bldg.

Sullivan Machinery Co., People's Gas
Bldg.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Ohio, Columbus

Jeffrey Mfg. Co.

Drills, Core*Ill., Chicago*

Standard Diamond Drill Co., First
National Bank Bldg.

Sullivan Machinery Co., People's Gas
Bldg.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Drills, Diamond*Ill., Aurora*

American Well Works

Ill., Chicago

Standard Diamond Drill Co., First
National Bank Bldg.

Sullivan Machinery Co., Peoples' Gas
Bldg.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Drills, Electric*Ill., Chicago*

Chicago Pneumatic Tool Co., 343 S.
Dearborn Ave.

Md., Baltimore

Black & Decker Mfg. Co., 105-115 S.
Calvert St.

N. Y., Buffalo

Buffalo Forge Co., 490 Broadway

Ohio, Columbus

Jeffrey Mfg. Co.

Drills, Hammer—Rock Excavation*Ill., Chicago*

Sullivan Machinery Co., 122 S. Michi-
gan Ave.

Drills, High Speed (see Drills, Twist)**Drills, Ore (see Drills, Coal)****Drills, Percussion***N. Y., New York City*

Diamond Expansion Bolt Co., 90 West
St. corner Cedar

Drills, Pneumatic*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher
Bldg.

Minn., St. Paul

Helwig Mfg. Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Ohio, Cleveland

Cleveland Pneumatic Tool Co., 6410
Hawthorne Ave.

Drills, Portable (Electric)*Ill., Chicago*

Electro Magnetic Tool Co., 2902 Can-
oll Ave.

Ky., Louisville

Clark Electric Co., Jas., Jr.

Mass., West Newton

American Electric Tool Co.

N. Y., New York City

Star Expansion Bolt Co., 147-149
Cedar St.

Ohio, Cincinnati

Neil & Smith Electric Tool Co., 120-122
E. 6th St.

Standard Electric Tool Co.

Ohio, Cleveland

Van Dorn Electric Tool Co.

Drills, Rock (see Drills, Coal)**Drills, Stone (see Drills, Coal)****Drills, Twist***Mass., Athol*

Union Twist Drill Co.

Mass., New Bedford

Morse Twist Drill & Machine Co.

Mich., Detroit

Detroit Twist Drill Co., 634-646 W.
Fort St.

National Twist Drill & Tool Co.

N. Y., New York City

Pratt & Whitney Co., 111 Broadway

N. Y., Syracuse

Syracuse Twist Drill Co.

Ohio, Akron

Whitman & Barnes Co.

Ohio, Cleveland

Cleveland Twist Drill Co.

Standard Tool Co.

Ohio, Toledo

Toledo Drill & Tool Co.

Drivers, Bolt*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

Drives*Ill., Aurora*

Stephens-Adamson Co.

Ill., Chicago

Caldwell & Son Co., H. W., 17th St. and Western Ave.

Link-Belt Co., W. 39th St. and Stewart Ave.

Ky., Louisville

Caldwell Co., W. E., Brook and D Sts

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Tiffin

Webster Mfg. Co.

Droppers*Ohio, Akron*

Goodrich Co., B. F.

Ohio, Ashland

Faultless Rubber Co.

Drug Mill Machinery*Ill., Chicago*Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg*Mich., Detroit*

Meade & Co.

Mich., Saginaw

Werner & Pfeleiderer Co., 1260 N. Niagara St.

N. Y., Brooklyn

Ross & Son Co., Chas.

N. Y., Buffalo

Cox Process Co.

N. Y., New York City

Abbé, Paul O., 30 Broad St

N. Y., Poughkeepsie

Lane Bros. & Co.

N. Y., Syracuse

Boomer & Boschert Press Co.

Ohio, Cincinnati

Day & Co., J. H.

Pa., Philadelphia

Enterprise Mfg. Co.

Drums, Copper*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Gerdes & Co., Inc., 50 Church St.

Ott Co., George F., 213 Buttonwood St.

Drums, Steel*Ill., Chicago*

American Spiral Pipe Works, 14th St. and S. Cicero Ave.

Toledo Steel Barrel Co., 134 S. La Salle St.

*Mich., Detroit*Detroit Range Boiler Co., 625 24th St.
Welded Steel Barrel Corp.*Mo., Kansas City*

Columbian Steel Tank Co.

N. J., Jersey City

Corcoran, Inc., A. J.

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

N. Y., Brooklyn

Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

N. Y., New York City

American Can Co., 120 Broadway

*Standard Tank Co., 15 Park Row

United Lined Tube & Valve Co., 111 Broadway

N. Y., Rochester

Pfaudler Co.

Ohio, Alliance

Reeves Bros. Co.

Ohio, Cleveland

Cleveland Steel Barrel Co.

Ohio, Defiance

American Steel Package Co.

Pa., Fullerton

Fuller-Lehigh Co

Pa., Pittsburgh

Scaife & Sons Co., First Nat. Bank Bldg.

Pa., Sharon

Petroleum Iron Works Co.

Wis., Milwaukee

Pressed Steel Tank Co.

Drums, Steel, Galvanized*N. Y., Brooklyn*

Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Steel, Glass Enameled*N. Y., New York City*

Mott Co., John L., 118 Fifth Ave.

N. Y., Rochester

Pfaudler Co

Ohio, Elvira

Elvira Enameled Products Co.

Drums, Steel, Tin Lined*N. Y., Brooklyn*

Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Steel, with Removable Heads*Mich., Detroit*

Detroit Range Boiler Co.

N. Y., Brooklyn

Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drum Washing Machines*Ill., Batavia*

Sperry & Co., D. R.

Dry Kilns (*see Kilns, Dry*)**Dry Blast Plants***N. Y., New York City*

Carrier Engineering Corp., 39 Cortlandt St.

Dryers, Air Conditioning*Pa., Philadelphia*Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road**Dryers, Air Recirculation***Pa., Philadelphia*Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road**Dryers, Air Steam-Heated***N. Y., New York City*

Gordon Dryer Corporation, 39 Cortlandt St.

Dryers, Atmospheric*N. Y., Buffalo*

Devine Co., J. P.

*N. Y., New York City*American Process Co., 68 William St.
Gordon Engineering Corp., 39 Cortlandt St.

Kalberrry Co., 31 Union Square, W.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

*Pa., Philadelphia*Philadelphia Drying Machinery Co.
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road**Dryers, Automatic***Pa., Philadelphia*Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road**Dryers, Centrifugal** (*see Centrifugals*)**Dryers, Coal***Ill., Chicago*

Link-Belt Co., W. 39th St. and Stewart Ave.

N. Y., New York City

American Process Co., 68-70 William St.

Ruggles-Coles Engineering Co., 50 Church St.

Ohio, Alliance

Reeves Bros. Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Dryers, Compartment*Ill., Chicago*

Drying Systems, Inc., 32 Michigan Ave.

N. Y., New York City

Gordon Engineering Corp., 39 Cortlandt St.

Kalberrry Corporation, 31 Union Square, W.

Dryers, Continuous Belt*Ill., Chicago*

Link-Belt Co., W. 39th and Stewart Ave.

N. Y., Buffalo

Zaremba Co., Morgan Bldg.

Dryers, Direct Heat*N. Y., New York City*

American Process Co., 68-70 William St.

Ill., Chicago

Redfield, Robert S., 327 S. La Salle St.

Md., Baltimore

Meade & Co., Richard K., Law Bldg.

Mass., Fall River

Scott & Co., Ernest

N. Y., New York City

Kalberrry Corporation, 31 Union Square, W.

Ruggles-Coles Engineering Co., 50 Church St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Pa., Coatesville

Coatesville Boiler Works

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Dryers, Drum*Ill., Chicago*

Link-Belt Co., W. 39th St. and Stewart Ave.

Redfield, Robert S., 327 S. La Salle St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Ohio, Akron

Biggs Boiler Works Co.

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Drum, Non-Vacuum*N. Y., Buffalo*

Devine Co., J. P., 1372 Clinton St.

Dryers, Drum, Vacuum*N. Y., Buffalo*

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Devine Co., J. P., 1372 Clinton St.

Dryers, Exhaust Steam

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Fireproof

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Fertilizer

Md., Baltimore
Meade & Co., Richard K., Law Bldg.
N. Y., New York City
American Process Co., 68 70 William
St.

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Devine Co., J. P.

Ohio, Cleveland
Bartlett & Snow Co., C. O.

Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, for Asbestos Board

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Binders' Board

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Bricks

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Cartridges

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Ceramic Ware

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Chemicals

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Drain Pipes

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Electric Insulators

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Fabrics

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Flue Tile

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Gas Mantles

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Glue

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Leather

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Leather Board

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Lithopone

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Lumber

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Match Sticks

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Paint Pigment

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Paper

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Pipe Covering

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Porcelain

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Raw Stock

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, for Soap

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Indirect Heat

N. Y., New York City
American Process Co., 68-70 William St.
Gordon Dryer Corporation, 39 Cortlandt St.
Kalbperry Corporation, 31 Union Square, W.
Ruggles-Coles Engineering Co., 50 Church St.

Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Laboratory

N. Y., Buffalo
Buffalo Foundry & Machine Co., 43 Winchester Ave.

Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, Liquid

N. Y., Buffalo
Buffalo Foundry & Forge Co., 26 Winchester Ave.

Ohio, Akron
Biggs Boiler Works

Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Live Steam

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Loop

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Low Temperature

N. Y., New York City
Gordon Dryer Corporation, 39 Cortlandt St.

Dryers, Ore

Cal., San Francisco
Union Iron Works

Colo., Denver
Colorado Iron Works Co.

Ill., Chicago
Chalmers & Williams, Inc.

N. Y., Buffalo
Buffalo Foundry & Forge Co., 26 Winchester Ave.

N. Y., New York City
Abbé Engineering Co., 220 Broadway
American Process Co., 68 William St.
Ruggles-Coles Engineering Co., 50 Church St.

Mine & Smelter Supply Co., 42 Broadway

Ohio, Cleveland
Bartlett & Snow Co., C. O.

Pa., Allentown
Traylor Engineering & Mfg. Co.

Dryers, Patent Imperial

Pa., Philadelphia
Blair, Campbell & McLean, Inc.,
Colonial Trust Bldg.

Dryers, Pharmaceutical

Mich., Saginaw
Werner & Pfeleiderer, Inc.

N. Y., Buffalo
Devine Co., J. P.

Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, Phosphate Rock (see Dryers, Fertilizers)**Dryers, Progressive**

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Rotary

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259

Mass., South Boston
Hersey Mfg. Co.

Mich., Muskegon
Muskegon Boiler Works, Eighth St.

N. J., Carteret
Wheeler Condenser & Engineering Co.

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P., 1372 Clinton St.

N. Y., New York City
American Process Co., 60 William St.
Kalbperry Corporation, 31 Union Square, W.

Machinery Utilities Co., Inc., 501 5th Ave.

Dryers, Rotary—cont.

Ruggles-Coles Engineering Co., 50 Church St.

Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Ohio, Akron

Biggs Boiler Works Co.

Ohio, Bucyrus

American Clay Machinery Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Cummer & Son Co., F. D., 413, The Arcade

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Wis., Manitowoc

Manitowoc Boiler Works

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Dryers, Rotary—Non-Vacuum

N. Y., Buffalo

Devine Co., J. P., 1372 Clinton St.

Dryers, Rotary, Phosphate Rock

Ill., Harvey

Whiting Foundry Equipment Co

Dryers, Rotary, Vacuum

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Devine Co., J. P., 1366 Clinton St.

Ohio, Akron

Biggs Boiler Works Co

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Shelf

Ill., Chicago

Drying Systems, Inc., 320 N. Michigan Ave.

Mass., Fall River

Scott & Co., Ernest

N. J., East Carteret

Wheeler Condenser & Eng. Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

N. Y., New York City

Gordon Engineering Corp., 39 Cortlandt St.

Kalbperry Corporation, 31 Union Square, W.

Ohio, Akron

Biggs Boiler Works Co.

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Shelf, Laboratory Vacuum

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Dryers, Shelf, Vacuum

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Steam Jacketed

Ill., Chicago

Perrin & Co., William R., Old Colony Bldg.

Redfield, Robert S., 327 S. La Salle St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co.

N. Y., New York City

Ruggles-Coles Engineering Co., 50 Church St.

Ohio, Akron

Biggs Boiler Works Co.

Dryers, Steel

Pa., Philadelphia

Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Stone

N. Y., New York City

Ruggles-Coles Engineering Co., 50 Church St.

Dryers, Textile

Ill., Chicago

Drying Systems, Inc., 320 Michigan Ave.

Mass., Boston

Sturtevant Co., B. F., Hyde Park

Mich., Detroit

American Blower Co.

N. J., Jersey City

Seydel Mfg. Co.

N. Y., New York City

American Process Co., 70 William St.

Carrier Air Conditioning Co., 39 Cortlandt St.

Gordon Dryer Corporation, 39 Cortlandt St.

Pa., Philadelphia

Philadelphia Drying Machine Co., Stokley St.

Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Tray

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St., and Tabor Road

Dryers, Truck

Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Tunnel

N. Y., New York City
Gordon Engineering Corp., 39 Cort-
landt St.
Kalberrry Corporation, 31 Union
Square, W.
Pa., Philadelphia
Philadelphia Textile Machinery Co.,
Sixth St. and Tabor Road

Dryers, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle
St.
Md., Baltimore
Meade & Co., Richard K., Law Bldg.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Ni-
agara St.
N. J., Jersey City
Koven & Bro., L. O., 135 Ogden Ave.
N. Y., Brooklyn
Hubbard's Sons, Norman, 265 Water
St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co., 1300 N. Niagara St.
N. Y., New York City
American Process Co., 68 William St.
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Ott Co., George F., 213 Buttonwood
St.
Stokes Machine Co., F. J.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Rail-
road Sts.

Dryers, Vacuum Chamber

N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.

Dryers, Vat

N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent
Ave.

Dryers, Vibrating

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Ni-
agara St.

Drying Apparatus, Vacuum

N. Y., Buffalo
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.

Drying Machines, Blue Prints

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Drying Plants

Ind., Indianapolis
Hunter Dry Kiln Co., The, 26th and
Cornell Ave.
Mass., Fall River
Scott & Co., Ernest
Mich., Kalamazoo
Clarage Fan Co.
Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Ni-
agara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Carrier Engineering Corporation, 39
Cortlandt St.
Kalberrry Corporation, 31 Union
Square, W.
Machinery Utilities Co., 501 5th Ave.
N. Y., Rochester
Will Corporation
Pa., Philadelphia
Blair, Campbell & McLean, Inc., Co-
lonial Trust Bldg.
Philadelphia Drying Machinery Co.
6721 Germantown Rd.
Stokes Machine Co., F. J.

Duck, Paper Felt

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
N. Y., New York City
Turner, Halsey Co., 62 Leonard St.

Ductility Machines

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb
Ave.

Dumbwaiters

- N. Y., New York City*
Otis Elevator Co., 26th St. and 11th Ave.
Sedgwick Machine Works, Inc., 128 W. Liberty St.
- Ohio, Cincinnati*
Ready Co., H. J.
Warner Elevator Mfg. Co.

Dumbwaiters, Electric

- N. Y., New York City*
Otis Elevator Co., 26th St. and 11th Ave.

Dumpers, Coal

- Ohio, Cleveland*
Bartlett & Snow Co., C. O.
Brown Hoisting Machinery Co.

Dumpers, Ore (*see Dumpers, Coal*)**Duriron, Acid Proof**

- N. Y., New York City*
Durnon Castings Co., 90 West St

Dust and Smoke Determinators

- Ill., Chicago*
Sargent Steam Meter Co., 2835 Armitage Ave.

Dust Chambers and Flues

- Colo., Denver*
Colorado Iron Works Co

Dust Collecting Systems

- Ill., Chicago*
Hlg Electric Ventilating Co., 131 Whiting St.
Stroud & Co., E. H., 928 Fullerton Ave.
Sullivan Machinery Co., 122 S. Michigan Ave.
- Mass., Boston*
Sturtevant & Co., B. F., Hyde Park
- Mich., Detroit*
American Blower Co.
- Mich., Kalamazoo*
Clarage Fan Co.
- N. J., Trenton*
De Laval Steam Turbine Co.
- N. Y., Buffalo*
Buffalo Forge Co.
- N. Y., New York City*
Beach Russ Co., 220 Broadway
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Ingersoll-Rand Co., 11 Broadway
Kalbpery Corporation, 31 Union Square, W.
Van Emden Co., H., 145 W. 45th St.
- Pa., Philadelphia*
Braemer Air Conditioning Corporation, LaFayette Bldg.

Dust Collectors, Cloth

- Ill., Chicago*
Clark Dust Collecting Co., 1116 Fisher Bldg.
Stroud & Co., E. H., 928 Fullerton Ave.

Dusting Machinery

- Mass., Pittsfield*
Jones & Sons Co., E. D., 25 Depot St.

Dyeing Machinery

- Mass., Adams*
Allen Iron Works
- Mass., Boston*
Leigh & Butler, 232 Summer St.
Riley Co., C. E., 65 Franklin St.
- Mass., Holyoke*
Holyoke Machine Co.
- Mass., Orange*
Hunt Machine Co.
- N. J., Paterson*
Watson Machine Co., 74 R. R. Ave
- N. Y., Albany*
Townsend Furnace & Machine Shop Co.
- N. Y., Buffalo*
Devine Co., J. P.
- N. Y., New York City*
American Textile Special Machinery Co., 109 5th Ave.
- N. Y., Troy*
Tolhurst Machine Works
- Ohio, Cincinnati*
American Laundry Machinery Co.
- Pa., Philadelphia*
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Philadelphia Textile Machinery Co., 6th St. and Tabor Road
- Pa., Pittston*
Delahunty Dyeing Machine Co.
- R. I., Providence*
Textile Finishing Machinery Co.

Dyestuff Plants

- Mass., Boston*
Badger & Sons Co., R. E., 63-75 Pitts St.
- Mass., Cambridge*
Little Co., Inc., Arthur D.
- Mass., Fall River*
Scott & Co., Ernest
- Md., Baltimore*
Bartlett, Hayward Co.
- N. Y., Buffalo*
Buffalo Forge & Foundry Co.
Devine Co., J. P.
Farrar & Trefts
- N. Y., New York City*
Jacoby, Henry E., 95 Liberty St.
- Pa., South Bethlehem*
Bethlehem Steel Co.

Dynamite Machinery (*see Explosive Plants*)**Dynamite Sheel Machines***N. Y., Olean*

Luther Mfg. Co., 133 Railroad Ave.

Dynamometers*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*N. J., Jersey City*Standard Motor Construction Co.,
172-180 Whiton St.*N. Y., New York City*

Chatillon & Sons, John, 85-93 Cliff St.

Dynamos (*see also Generators*)*Ill., Chicago*

Fairbanks-Morse & Co., 902 S. Wabash Ave.

Western Electric Co., 500 S. Clinton Ave.

Mass., Boston

Sturtevant Co., B. F., Hyde Park

N. Y., Schenectady

General Electric Co.

Ohio, Springfield

Robbins & Myers Co.

Pa., East Pittsburgh

Westinghouse Electric Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Earthenware, Sanitary*N. J., Perth Amboy*

Fords Porcelain Works, P. O. Box 407

Efficiency Kits*Mich., Detroit*

Precision Instrument Co., Fort & Wayne Sts.

Ejectors, Acid*N. Y., Buffalo*

Sherwood Mfg. Co., 1702-12 Elmwood Ave.

*N. Y., New York City*Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Worthington Pump and Machinery Corp., Broadway and Cedar St*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A

Ejectors, Non-Acid Liquids*N. Y., Buffalo*

Sherwood Mfg. Co., 1710 Elmwood Ave.

Ejectors, Syphon*Ill., Chicago*Chicago Pump Co., 904-10 W. Lake St.
Economy Pumping Machinery Co.,
116-118 N. Carpenter St.*N. Y., New York City*Duriron Castings Co., 90 West St.
Worthington Pump & Machinery Co.,
113 Broadway*Ohio, Cincinnati*

Lunkenheimer Co.

Elbows, Brass*Ill., Chicago*

Crane Co., 836 S. Michigan Ave.

Mass., Boston

Walworth Mfg. Co.

Mich., Grand Rapids

Wolverine Brass Works

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Ohio, Cincinnati

Lunkenheimer Co., Beekman and Waverly Sts.

Ohio, Columbus

Columbus Brass Co.

Ohio, Mansfield

Ohio Brass Co.

Pa., Pittsburgh

National Tube Co., 1802 Frick Bldg.

Elbows, Iron, Cast and Malleable*Ill., Chicago*Crane Co., 836 S. Michigan Ave.
Illinois Malleable Iron Co., 1801 Diversey Blvd.*Mass., Boston*

Walworth Mfg. Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

N. Y., Dunkirk

United States Radiator Corp.

N. Y., New York City

Central Foundry Co., 90 West St

*Pa., Pittsburgh*National Tube Co., 1802 Frick Bldg.
National Valve Co.**Elbows, Rubber***N. J., Trenton*

Luzerne Rubber Co.

N. Y., New York City

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Pa., Jeannette

Pennsylvania Rubber Co.

Pa., Philadelphia

Quaker City Rubber Co., 629 Market St.

Electric Heating Apparatus (*see*
Heaters, Electric, and Heaters, Electric,
Laboratory)

Electric Hot Plates

N. J., Newark
Electric Heating Apparatus Co., 123-
25 Sussex Ave.

**Electric Hot Plates, Multiple
Unit**

N. J., Newark
Electric Heating Apparatus Co., 123-
125 Sussex Ave.

Electrical Precipitation

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

**Electrical Measuring Appli-
ances**

N. J., Newark
Weston Electrical Instrument Co.,
Waverly Park

**Electrical Measuring Instru-
ments**

Conn., Waterbury
Bristol Co.
Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 54 W. Kinzie St.

N. J., Newark
Weston Electrical Instrument Co.,
Waverly Park

N. J., Trenton
Pyroelectric Instrument Co., 636-640
E. State St.

N. Y., New York City
Pignolet, Louis M., 78 Cortlandt St.
Western Electric Co.

N. Y., Rochester
Taylor Instrument Cos.

N. Y., Schenectady
General Electric Co.

Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Leeds & Northrop Co., 4907 Stenton
Ave.

Queen-Gray Co., 616-620 Chestnut St.
Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Electrical Testing Apparatus
(*see Electric Measuring Apparatus*)

Electro Analysis Apparatus

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washing-
ton Sq.

Electrochemical Equipment

Colo., Denver
Colorado Iron Works Co.
Dorr Co., Cooper Bldg.

Ill., Chicago
Swenson Evaporator Co., Monadnock
Bldg.

Me., Portland
Electron Chemical Co.

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts
St.

Lammus Co., Walter E., 173 Milk St.
Mass., Fall River

Scott Co., Ernest
Mass., Springfield
Green Co., Samuel M.

N. J., Elizabeth
Moore & Sons Corporation, Samuel L.

N. J., Jersey City
Koven & Brother, L. O., 154 Ogden
Ave

N. Y., Brooklyn
Johnson Co., John, 37th and 2d Aves.

N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., Niagara Life Bldg.

N. Y., New York City
Dorr Co., 17 Battery Pl.
Electrolytic Engineering Corporation,
501 Fifth Ave

Electrolytic Oxy-Hydrogen Labora-
tories, Inc., 15 William St.
Warner Chemical Co., 52 Vanderbilt
Ave

Electrodes, Carbon

N. Y., Niagara Falls
Acheson Graphite Co.

N. Y., New York City
Leavitt & Co., C. W., 36 Church St.

Ohio, Cleveland
National Carbon Co

Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Electrodes, Graphite

N. Y., Niagara Falls
Acheson Graphite Co.

Electrodes, Platinum

N. J., Newark
American Platinum Works, 225 New
Jersey R. R. Ave.

Baker & Co., Inc., Murray and Austin
Sts.

N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th
Sts.

Pa., Malvern
Bishop & Co., Platinum Works, J.

Electro-Dynamometers

- N. J., Newark*
Weston Electrical Instrument Co.
N. J., Trenton
Pyroelectric Instrument Co., 636-640
E. State St.

Electrolytic Conductivity Apparatus

- Pa., Philadelphia*
Leeds & Northrup Co., 4901 Stenton
Ave.

Electrolytic Refining

- Pa., East Pittsburgh*
Westinghouse Electric & Mfg. Co.

Electrolytic Oxygen and Hydrogen Equipment

- N. Y., New York City*
Electrolytic Oxy-Hydrogen Labora-
tories, Inc., 15 William St.

Electrolytical Apparatus

- N. Y., New York City*
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.

Electro-Magnets (*see Magnets, Elec-
tro*)**Electrometers (Compton Quad-
rant)**

- N. J., Trenton*
Pyroelectric Instrument Co., 636-640
E. State St.

Electroscopes (Ionization)

- N. Y., New York City*
Standard Scientific Co., 147 Waverly
Pl.

Elevating Machinery (*see also Ele-
vators*)

- Colo., Denver*
Colorado Iron Works Co.
Ill., Aurora
Barber-Greene Co.
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and
Western Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.

- Mich., Saginaw*
Werner & Pfleiderer Co., 1260 N. Ni-
agara St.
N. J., Bayonne
Revolator Co., 344-352 Garfield Ave.
N. Y., New York City
Lowerator Co., Inc., 246 W. 23d St.

Elevators, Acid

- N. Y., New York City*
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Elevators, Automatic Package

- Pa., Ellwood City*
Mathews Gravity Carrier Co.

Elevators. Barrel

- Ill., Chicago*
Link-Belt Co., W. 39th St. and Stewart
Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Ni-
agara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Elevators, Bucket

- Colo., Denver*
Colorado Iron Works Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart
Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Ni-
agara St.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Tiffin
Webster Mfg. Co.

Elevators, Electric

- N. Y., New York City*
Otis Elevator Co., 26th St. and 11th
Ave.
Ohio, Cincinnati
Reedy Co., J. H.
Warner Elevator Mfg. Co.
Pa., Chester
Wetherill & Co., Inc., Robert

Elevators, Freight*Conn., New Haven*

Eastern Machinery Co.

*Mass., Worcester*Standard Plunger Elevator Co., 243
Stafford St.*N. Y., New York City*General Elevator Co., 29 Broadway
Otis Elevator Co., 11th Ave. and 26th
St.*N. Y., Syracuse*

Houser Elevator Co., 314 E. Water St.

Elevators, Hand Power*N. Y., New York City*Sedgwick Machine Works, Inc., 128
W. Liberty St.Otis Elevator Co., 11th Ave. and 26th
St.**Elevators, Hydraulic***N. Y., New York City*Otis Elevator Co., 26th St. and 11th
Ave.*Ohio, Cincinnati*

Reedy Co., H. J.

Ohio, Toledo

Haughton Elevator & Machine Co.

Pa., Chester

Wetherill & Co., Robert

Elevators, Hydraulic Plunger*Mass., Worcester*Standard Plunger Elevator Co., 243
Stafford St.*Pa., Chester*

Wetherill & Co., Inc., Robert

Elevators, Inclined, Automatic*Ill., Chicago*Link-Belt Co., W. 39th St. and Stewart
Ave.*Mo., St. Louis*

Alvey Mfg. Co.

*N. Y., New York City*Otis Elevator Co., 26th St. and 11th
Ave.**Elevators, Pneumatic***Ill., Harvey*

Whiting Foundry Equipment Co.

Elevators, Portable*Ill., Chicago*Link-Belt Co., W. 39th St. and Stewart
Ave.*N. J., Jersey City*

Revolvator Co., 344-352 Garfield Ave.

Elevators, Sack*Mich., Saginaw*Werner & Pfleiderer Co., 1260 N. Ni-
agara St.**Elevators, Vertical, Automatic***Ill., Chicago*Link-Belt Co., W. 39th St. and Stewart
Ave.*Mo., St. Louis*

Alvey Mfg. Co.

Emery*Ill., Chicago*Rhodes & Co., Jas. H., 157 W. Kinzie
St.*N. Y., New York City*

Waddell & Co., R. J., 55 Beekman St.

N. Y., Niagara Falls

Carborundum Co.

Emery Cloth*Mass., Boston*

American Glue Co., 121 Beverly St.

Emery Paper*Mass., Boston*

American Glue Co., 121 Beverly St.

Emery Wheels (*see Grinding Wheels*)**Emery Wheel Machinery***Mich., Saginaw*Werner & Pfleiderer Co., 1260 N. Ni-
agara St.**Emulsifiers***N. Y., Brooklyn*

Johnson Co., John, 37th and 2d Ave.

N. Y., New York City

De Laval Separator Co., 165 Broadway

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Emulsifiers, Centrifugal*N. Y., New York City*De Laval Separator Co., 165 Broad-
way*Ohio, Cincinnati*

Day Co., J. H., 1144 Harrison Ave.

N. Y., New York City

Mott Co., John L., 118 Fifth Ave.

Pa., Philadelphia

Stokes Machine Co., F. J.

**Enameled Apparatus, Acid Re-
sisting***Ohio, Elyria*

Elyria Enameled Products Co.

Enameling Machinery*N. Y., New York City*

Jacoby, Henry E., 95 Liberty St.

*Pa., Philadelphia*American Insulating Machinery Co.,
Inc., Fairhill and Huntingdon Sts.**Engineers, Chemical** (*see Chapter V*)**Engines, Blowing***Ill., Chicago*Fairbanks, Morse & Co., 900 S. Wabash
Ave.Sullivan Machinery Co., 122 S. Michi-
gan Ave.*Ill., Quincy*

Gardner Governor Co.

Mich., Detroit

American Blower Co., 1400 Russell St.

Mich., Saginaw

Wickes Boiler Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Cor-
poration, 113 Broadway*Pa., South Bethlehem*

Bethlehem Steel Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Engines, Chemical*N. Y., New York City*

Hayward & Co., S. F., 250 W. 54th St.

Engines, Corliss*Cal., Los Angeles*

Llewellyn Iron Works

*N. Y., New York City*Machinery Utilities Co., Inc., 501 5th
Ave.*Pa., Chester*

Wetherill & Co., Robt.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Waynesboro

Frick Co., Inc.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co., 824 Clinton St.

Engines, Deep Well*Ill., Aurora*

American Well Works

Engines, Diesel*Conn., Groton*

New London Ship & Engine Co.

Ind., Anderson

Anderson Foundry & Machine Works

Ind., Indianapolis

Lyons Atlas Co.

Mo., St. Louis

Fulton Iron Works

*N. Y., New York City*Worthington Pump & Machinery
Corp., 113 Broadway*Ohio, Mt. Vernon*

Hope Engineering & Supply Co.

Wis., Milwaukee

Nordberg Mfg. Co.

Engines, Fire, Chemical*Mass., Boston*Badger Fire Extinguisher Co., Inc.,
31 Portland St*N. Y., Elmira*

American-La France Fire Engine Co.

Wis., Milwaukee

Erwin Mfg. Co.

Engines, Gas*Cal., Los Angeles*

Llewellyn Iron Works

*Ill., Chicago*Chicago Pneumatic Tool Co., Fisher
Bldg.*Md., Baltimore*Baltimore Cooperage Co., The
Bartlett-Hayward Co.*Mass., Boston*

Sturtevant Co., B. F., Hyde Park

*N. Y., New York City*Akerlund & Semmes, Inc., 17 Battery
Pl.

Fairbanks Co., Broome St.

De LaVergne Machine Co., 1138 E.
138th St

Gerdes & Co., Inc., 30 Church St.

Machinery Utilities Co., 501 5th Ave.

Otto Gas Engine Works

Worthington Pump & Machinery
Corp., 113 Broadway*N. Y., Schenectady*

General Electric Co.

*N. Y., Syracuse*Syracuse Industrial Gas Co., 206
McCarthy Bldg.*Ohio, Mt. Vernon*

Hope Engineering & Supply Co.

Pa., Philadelphia

Lonergan Co., J. E., 211 Race St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Davis Mfg. Co., 57th Ave. and Mitchell
St.**Engines, Gasoline***Ohio, Mt. Vernon*

Hope Engineering & Supply Co.

Engines, Gas Producer*Ill., Chicago*

Fairbanks-Morse & Co.

N. Y., New York City

Akerlund & Semmes, Inc., 17 Battery Pl.

Pa., Philadelphia

Otto Gas Engine Works

Engines, Oil*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

*Elmer, H. N., 53 W. Jackson Blvd.

Fairbanks-Morse & Co., S. Wabash Ave.

Mich., Detroit

Gray Motor Co.

Mo., St. Louis

Fulton Iron Works

N. Y., New York City

De LaVergne Machine Co., foot E. 138th St.

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Mt. Vernon

Hope Engineering & Supply Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Davis Mfg. Co., 57th Ave. and Mitchell St.

Engines, Poppet Valve*Wis., Milwaukee*

Vilter Mfg. Co., 824 Clinton St.

Engines, Pumping*Ill., Aurora*

American Well Works

Ill., Chicago

Fairbanks-Morse & Co.

N. Y., New York City

Machinery Utilities Co., Inc., 501 5th Ave.

Pa., Philadelphia

Otto Gas Engine Works

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Engines, Steam*Cal., Los Angeles*

Llewellyn Iron Works, N. Main and Redondo Sts.

Cal., San Francisco

Union Iron Works Co., 260 California Ave.

Conn., New Britain

New Britain Machine Co., 65 Chestnut St.

Del., Wilmington

Pusey & Jones Co.

Ill., Aurora

American Well Works

Md., Baltimore

Codd Co., E. J., 700 S. Caroline St.

Mass., Boston

Sturtevant Co., B. F., Hyde Park

Mass., East Boston

Mead-Morrison Mfg. Co., Prescott and Orleans Sts.

Mich., Bay City

Industrial Works

Mich., Detroit

American Blower Co., 1400 Russell Ave.

Mich., Kalamazoo

Clarage Fan Co.

Mich., Saginaw

Wickes Bros.

N. J., East Carteret

Wheeler Condenser & Engineering Co.

N. Y., Baldwinville

Morris Machine Works

N. Y., Buffalo

Buffalo Forge Co., 490 Broadway

N. Y., New York City

Brown Hoisting Machinery Co., 50 Church St.

Hunt Co., C. W., 45 Broadway

Machinery Utilities Co., Inc., 501 5th Ave.

Sanborn Evaporator Co., 87 Wall St.

Ohio, Cincinnati

Houston-Stanwood & Gamble Co., The

Pa., Chester

Wetherill & Co., Robert

Pa., Philadelphia

Lonergan Co., J. E., 211 Race St.

Wood & Co., R. D., 400 Chestnut St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Nordberg Mfg. Co.

Vilter Mfg. Co., 824 Clinton St.

Engines, Vertical Steam*Mich., Kalamazoo*

Clarage Fan Co.

Erasers, Blackboard*Ill., Chicago*

Andrews Co., A. H., 174 Wabash Ave.

Ill., Chicago Heights

Weber-Costello Co.

Escalators*N. Y., New York City*

Otis Elevator Co., 11th Ave. and 26th St.

Evaporation Plants (see Evaporators)*Pa., Philadelphia*

Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Evaporators, Basket Type*Ill., Chicago*

Swenson Evaporator Co., Monadnock Bldg.

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Sowers Mfg. Co., 1300 Niagara St.

Machinery Utilities Co., Inc., 501 5th Ave.

Zaremba Co., Niagara Life Ins. Bldg.

N. Y., New York City

Jacoby, Henry E., 95 Liberty St.

Sanborn Evaporator Co., 87 Wall St.

Pa., Philadelphia

Stokes Machine Co., B. F.

Evaporators, Carlson*N. Y., New York City*

International Process Co., 5 Beekman St.

Evaporators, Chemical Plants*Del., Wilmington*

Pusey & Jones Co.

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Swenson Evaporator Co., Monadnock Bldg.

Redfield, Robert S., 327 S. La Salle St.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Mo., St. Louis

Brecht Co., 1203 Cass Ave.

Cook Cane Mill & Evaporator Co., 320 N. 2d St.

Zellweger & Sons, John, 1900 Adelaide Ave.

N. J., Carteret

Wheeler Condenser & Engineering Co.

N. J., Hampton

Standard Water Systems Co.

N. Y., Brooklyn

Burkhard, Inc., Thomas, 494 Flushing Ave.

Improved Appliance Co., 415 Kent Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Buffalo Steam Pump Co.

Devine Co., J. P., 1372 Clinton St.

Zaremba Co., Niagara Life Ins. Bldg.

N. Y., New York City

American Lead Burning Corporation, 30 Church St.

General Ceramics Co., 50 Church St.

Griscom-Russell Co., 90 West St.

International Process Co., 5 Beekman St.

Jacoby, Henry E., 95 Liberty St.

Machinery Utilities Co., Inc., 501 5th Ave.

Palo Co., 90-92 Maiden Lane

Ordway, Charles, 174 Fulton St.

Roos' Sons, August, 429 E. 91st St.

Sanborn Evaporator Co., 87 Wall St.

United Lined Tube & Valve Co., 111 Broadway

Van Emden Co., H., 145 W. 45th St.

N. Y., Rochester

Pfaudler Co.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams St. and B. & O. R. R.

U. S. Stoneware Co.

Ohio, Cleveland

Dyer Co., 2033 Euclid Ave.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Jenkintown

Hodges Water Still Co., Inc.

Pa., Philadelphia

Blair Campbell & McLean, Ltd.

Oat & Sons, Joseph, 232 Quarry St.

Stokes Machine Co., F. J., 17th and Cambria Sts.

Wood & Co., D. R., 400 Chestnut St.

Pa., Pittsburgh

Marshall Foundry Co., 28th and Railroad Sts.

Evaporators, Crystallizing*Ill., Batavia*

Sperry & Co., D. R.

Ill., Chicago

Swenson Evaporator Co., Monadnock Bldg.

Mass., Boston

Badger & Sons, E. B., 63 75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Zaremba Co., 707 D. S. Morgan Bldg.

Pa., Philadelphia

Stokes Machine Co., F. J.

Evaporators, Film Triple Effect*Pa., Philadelphia*

Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Evaporators, Glass Enameled*Ohio, Elyria*

Elyria Enameled Products Co.

N. Y., Rochester

Pfaudler Co.

Evaporators, High Density*Mass., Fall River*

Scott & Co., Ernest, P. O. Box 259

N. Y., Buffalo

Zaremba Co., 707 D. S. Morgan Bldg.

Pa., Philadelphia

Stokes Machine Co., F. J.

Evaporators, Horizontal and Vertical Tube*Ill., Chicago*Redfield, Robert S., 327 S. La Salle St.
Swenson Evaporator Co., Monadnock Bldg.*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Evaporators, Lead Lined*Mass., Boston*

Badger & Sons Co., E. B., 75 Pitts St.

*N. Y., New York City*American Lead Burning Corporation,
30 Church St.

Sanborn Evaporator Co., 87 Wall St.

United Lined Tube & Valve Co., 111 Broadway

N. Y., Buffalo

Buffalo Foundry & Machine, 26 Winchester Ave.

Zaremba Co., Morgan Bldg.

N. Y., Rochester

Pfaudler Co.

Ohio, Elyria

Elyria Enameled Products Co.

Evaporators, Multiple Effect*Del., Wilmington*

Pusey & Jones Co.

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Swenson Evaporator Co., 945 Monadnock Bldg.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

N. J., East Carteret

Wheeler Condenser & Engineering Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

Zaremba Co., Morgan Bldg.

N. Y., New York City

Sanborn Evaporator Co., 87 Wall St.

Pa., Philadelphia

Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Ott Co., George F., 213 Buttonwood St.

Stokes Machine Co., F. J.

Wood & Co., R. D., 400 Chestnut St.

Evaporators, Pressure*Del., Wilmington*

Pusey & Jones Co.

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Swenson Evaporator Co., 945 Monadnock Bldg.

*Mass., Boston*Badger & Sons Co., E. B., 75 Pitts St.
Lummus Co., Walter S., 173 Milk St.*Mass., Fall River*

Scott & Co., Ernest

N. J., East Carteret

Wheeler Condenser & Engineering Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Zaremba Co., Morgan Bldg.

N. Y., New York City

Sanborn Evaporator Co., 87 Wall St.

Pa., Philadelphia

Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Ott Co., George F., 213 Buttonwood St.

Stokes Machine Co., F. J.

Wood & Co., R. D., 400 Chestnut St.

Scotland, Glasgow

Blair, Campbell & McLean, Ltd., Woodville St., Govan

Evaporators, Rapid*Pa., Philadelphia*

Blair, Campbell & McLean Co., Colonial Trust Bldg.

Evaporators, Rapid Circulation*Ill., Chicago*

Swenson Evaporator Co., 945 Monadnock Bldg.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Zaremba Co., Niagara Life Ins. Bldg.

Pa., Philadelphia

Stokes Machine Co., 17th and Cambria Sts.

Evaporators, Salt Brines

Mich., Saginaw, W. S.
Nickle, Frank H., 1321 N. Bond St.

Evaporators, Single and Multiple Effect

Pa., Philadelphia
Kestner Evaporator Co., 18th St. and Allegheny Ave.

Evaporators, Sugar

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.

Md., Baltimore
Bartlett Hayward Co

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., East Carteret
Wheeler Condenser & Engineering Co.

N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Zarembo Co., Morgan Bldg.

N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.

Evaporators, Vacuum

Del., Wilmington
Pusey & Jones Co.

Ill., Batavia
Sperry & Co., D. R.

Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.

Md., Baltimore
Bartlett-Hayward Co

Mass., Fall River
Scott & Co., Ernest

N. J., Burlington
United States Cast Iron Pipe & Foundry Co.

N. J., East Carteret
Wheeler Condenser & Engineering Co.

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.
Zarembo Co., Morgan Bldg.

N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Sanborn Evaporator Co., 87 Wall St.
United Lined Tube & Valve Co., 111 Broadway

Pa., Philadelphia
Stokes Machine Co., F. J.
Wood & Co., R. D., 400 Chestnut St.

Evaporators, Vacuum, Single and Multiple Effect

N. Y., Buffalo
Devine Co., J. P., 1366 Clinton St.

Evaporators, Waern

N. Y., New York City
International Process Co., 5 Beekman St.

Excavators (see Buckets)**Exchangers**

Ill., Chicago
Hlg Electric Ventilating Co., 131 Whiting St

Mass., Boston
Lummus Co., Walter E., 173 Milk St.
Sturtevant Co., B. F., Hyde Park

Mich., Kalamazoo
Clarage Fan Co.

Mich., Detroit
American Blower Co., 1400 Russell St.

N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave

N. Y., Buffalo
Buffalo Forge Co
Buffalo Foundry & Machine Co

N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St

General Ceramics Co., 50 Church St.
Stevens Bros., Singer Bldg

Pa., Philadelphia
Braemer Air Conditioning Co., Lafayette Bldg

Pa., Pittsburgh
Koppers Co., H

R. I., Providence
General Fire Extinguisher Co

Exhaust Wheels, Electric

N. J., Elizabethport
Diehl Mfg. Co.

Exhausters (see Blowers, Exhaust)**Exhausters, Gas**

Conn., Hartford
Terry Steam Turbine Co.

Ind., Connersville
Connersville Blower Co.

Mich., Detroit
American Blower Co.

N. Y., Buffalo
Buffalo Forge Co., 490 Broadway

Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Exhausters, Lead

Pa., Philadelphia
Schautte & Koerting Co., 12th and Thompson Sts.

Exhausters, Lead (Steam Jet)

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Exhausters, Volume, Cast Housed

Ind., Indianapolis

Indiana Fan Co., 40 E. South St.

Expansion Joints

N. Y., Buffalo

Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.

N. Y., New York City

Kellogg Co., The M. W., 90 West St.

Explosive Plants

Ill., Chicago

Westinghouse, Church Kerr & Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Luminus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mich., Saginaw

Werner & Pfeleiderer, Inc

N. Y., Buffalo

Buffalo Foundry & Machine Co

Devine Co., J. P.

N. Y., New York City

General Ceramics Co., 50 Church St.

N. Y., Olean

Luther Mfg. Co., 133 Railroad Ave.

Pa., Williamsport

Valley Iron Works

Extraction Plants

Md., Baltimore

Bartlett-Hayward Co

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

Luminus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Mich., Saginaw

Werner & Pfeleiderer, Inc.

N. Y., Brooklyn

Howard & Morse, 1197 De Kalb Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co

Devine Co., J. P.

N. Y., New York City

Garrigue & Co., Wm., 154 Nassau St.

Sanborn Evaporator Co., 50 Broad St.

N. Y., Rochester

Will Corporation

N. Y., Troy

Tolhurst Machine Works

Extractors, Centrifugal (see also Centrifugals)

Extractors, Hydro, Centrifugal

Mass., Brighton

International Equipment Co., 352 Western Ave.

N. Y., Troy

Tolhurst Machine Works

Extractors, Oil and Grease

Md., Baltimore

Bartlett-Hayward Co.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Extractors, Screw

Ohio, Cleveland

Cleveland Twist Drill Co.

Extractors, Tar

Ind., Ft. Wayne

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

Ohio, Cleveland

Gas Machinery Co.

Ohio, Dayton

Smith Gas Engineering Co

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St.

Fans, Acid

Colo., Denver

Stearns-Roger Mfg. Co., 1718-20 California St.

Ill., Chicago

Ilg Electric Ventilating Co., 154 Whiting St

Mass., Boston

Electric Blower Co., 352 Atlantic Ave.

Sturtevant Co., B. F., Hyde Park

Mass., Holyoke

Perkins & Son, Inc., B. F.

Mich., Detroit

American Blower Co., 1400 Russell St.

N. Y., Buffalo

Buffalo Forge Co., 490 Broadway

N. Y., New York City

Duiron Castings Co., 90 West St

General Ceramics Co., 50 Church St.

Howard & Morse, 45 Fulton St.

N. Y., Schenectady

General Electric Co.

N. C., Charlotte

Chemical Construction Co.

Ohio, Akron

U. S. Stoneware Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Philadelphia

Ott Co., George F., 213 Buttonwood St.

Fans, Centrifugal

- Conn., Hartford*
Terry Steam Turbine Co.
- Ill., Chicago*
Fairbanks, Morse & Co., 900 S. Wabash Ave.
Hlg Electric Ventilating Co., 154 Whiting St.
- Mass., Boston*
Weller Mfg. Co., 1820 N. Koestner Ave.
- Mich., Kalamazoo*
Sturtevant Co., B. F., Hyde Park
Clarage Fan Co.
- N. Y., Buffalo*
Buffalo Forge Co.
- N. Y., New York City*
Green Fuel Economizer Co.
- N. Y., Schenectady*
General Electric Co.
- Ohio, Columbus*
Jeffrey Mfg. Co.
- Ohio, Springfield*
Robbins & Myers Co.
- Pa., Philadelphia*
Philadelphia Textile Machinery Co.

Fans, Disk

- Ind., Indianapolis*
Indiana Fan Co., 40 E. South St.

Fans, Dust (see Blowers)**Fans, Electric**

- Conn., Hartford*
Connecticut Blower Co., Inc.
- Mich., Detroit*
American Blower Co., 1400 Russell Ave.
- N. Y., Buffalo*
Buffalo Forge Co., 490 Broadway
- N. Y., New York City*
Howard & Morse, 45 Fulton St.
- N. Y., Schenectady*
General Electric Co.
- Ohio, Springfield*
Robbins & Meyers Co.
- Pa., East Pittsburgh*
Westinghouse Electric & Mfg. Co.

Fans, Exhaust

- Conn., Hartford*
Connecticut Blower Co., Inc.
- Ill., Chicago*
Hlg Electric Ventilating Co., 154 Whiting St.
Raymond Bros. Impact Pulverizer Co., 1318 N. Branch St.
- Ind., Indianapolis*
Indiana Fan Co., 40 E. South St.
- Mass., Boston*
Sturtevant Co., B. F., Hyde Park
- Mich., Detroit*
American Blower Co., 1400 Russell Ave.
- Mich., Kalamazoo*
Clarage Fan Co.

N. J., Trenton

- De Laval Steam Turbine Co.
- N. Y., Buffalo*
Buffalo Forge Co., 490 Broadway
- N. Y., New York City*
Duriron Castings Co., 90 West St.
Green Fuel Economizer Co.
Howard & Morse, 45 Fulton St.
- N. Y., Schenectady*
General Electric Co.
- N. Y., Troy*
Tolhurst Machine Co.
- Ohio, Springfield*
Robbins & Myers Co., The
- Pa., Philadelphia*
Philadelphia Textile Machinery Co.
- R. I., Providence*
New England Ventilating & Heating Co., 926 Manton Ave.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co.

Fans, Forced and Induced Draft

- Conn., Hartford*
Terry Steam Turbine Co.

Fans, Propeller

- Ill., Chicago*
Hlg Electric Ventilating Co.

Fans, Radial Flow

- N. Y., New York City*
Green Fuel Economizer Co., 90 West St.

Fans, Rotary, Lead

- Pa., Philadelphia*
Schautte & Koerting Co., 12th and Thompson Sts.

Fans, Vacuum (see Fans, Ventilating)**Fans, Ventilating (see Fans, Exhaust; Ventilating Systems)****Faucets, Acid Proof**

- N. Y., Brooklyn*
Graham Chemical Pottery Works, 986 Metropolitan Ave.
- N. Y., New York City* -
American Hard Rubber Co., 9 Mercer St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
United Lined Tube & Valve Co., 165 Broadway
- N. Y., Rockville Center, Long Island*
Nassau Valve & Pump Co., Inc.
- Ohio, Akron*
U. S. Stoneware Co.
- Ohio, East Akron*
Knight, Maurice A.
- Ohio, Akron*
U. S. Stoneware Co.
Weeks, A. J.

Faucets, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
Graham Chemical Pottery Works, The
Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Faucets, Wooden

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Feed Water Treatment

Ill., Chicago
Dearborn Chemical Co., McCormick Bldg.

Feeders, Apron

Ill., Aurora
Stephens-Adamson Mfg. Co.

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.

Ohio, Cleveland
Bartlett & Snow Co., C. O.

Ohio, Columbus
Jeffrey Mfg. Co.

Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Feeders, Ash

Ind., Connersville
Connersville Blower Co.

Feeders, Automatic

Colo., Denver
Colorado Iron Works Co.

Feeders, Boiler

Conn., Hartford
Terry Steam Turbine Co.

Ohio, Ashland
Myers & Bro.

Feeders, Dry

N. Y., New York City
Smith & Co., F. L., 50 Church St.

Feeders, Grain

Ind., Connersville
Connersville Blower Co.

Feeders, Ore

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.

Colo., Denver
Mine & Smelter Supply Co.

Ill., Aurora
Stephens-Adamson Mfg. Co.

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.

Stroud & Co., E. H., 928 Fullerton Ave.

Mass., Boston
Sturtevant Mill Co., Harrison Sq.

N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Cleveland
Bartlett & Snow Co., C. O.

Ohio, Columbus
Jeffrey Mfg. Co.

Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Feeders, Slurry

N. Y., New York City
Smith & Co., F. L., 50 Church St.

Fehling's Test Outfit

N. Y., New York City
Squibb & Sons., E. R., 80 Beekman St.

Felt, Filter

Ill., Chicago
Booth Felt Co., Inc., 116 S. 5th Ave.

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.

Mass., Boston
American Felt Co., 100 Summer St.
Felters Co., 103 Bedford St.

Mass., Winchester
Bacon Felt Co.

N. Y., Albany
Huyck & Sons, F. C.

N. Y., Brooklyn
Booth Felt Co., Inc., 440 19th St.

N. Y., New York City
Turner, Halsey Co., 62 Leonard St.

Felt, Waterproof

Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
Flintkote Mfg. Co., 88 Pearl St.

Mo., St. Louis
Certain-teed Products Corp., 314 N. Broadway

N. Y., New York City
Barrett Co., 17 Battery Pl.
Hydrex Felt & Engineering Co., 120 Liberty St.

Texas Co., 17 Battery Pl.

N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Fertilizer Machinery (*see also* *Specific Headings*)

Del., Wilmington

Walker & Elliott, Inc.

Ill., Chicago

Caldwell & Son Co., H. W., 17th and Western Ave.

Link-Belt Co., W. 39th St. and Stewart Ave.

Ga., Atlanta

Pratt Engineering & Machine Co.

Md., Baltimore

Codd Co., E. J., 700 S. Caroline St.

Sackett, A. J.

Mass., Boston

Bradley Pulverizer Co., 82 State St.

Sturtevant Mill Co., Harrison Sq.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Mich., Saginaw

Werner & Pfeiderer, Inc.

N. Y., New York City

American Lead Burning Corporation, 30 Church St.

American Process Co., 68 William St.

Ruggles-Coles Engineering Co., 50 Church St.

Mich., Saginaw

Werner & Pfeiderer Co., 1260 N. Niagara St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Tiffin

Webster Mfg. Co.

S. C., Charleston

Valk & Murdoch Co.

Fertilizer Machinery, Fish

N. Y., New York City

American Process Co., 68 William St.

Fertilizer Plants (*See also Fertilizer Machinery*)

Md., Baltimore

Meade & Co., Richard K., 608 Law Bldg.

Fibre, Celluron

Pa., Bridgeport

Diamond State Fibre Co.

Fibre, Flexible

Pa., Bridgeport

Diamond State Fibre Co.

Del., Wilmington

American Vulcanized Fibre Co., Equitable Bldg.

Fibre, Vulcanized

Del., Wilmington

American Vulcanized Fibre Co., Equitable Bldg.

Delaware Hard Fibre Co.

Pa., Bridgeport

Diamond State Fibre Co.

Filing Cabinets, Blue Print, Steel

Ill., Chicago

Pease Co., C. F., 219 W. Institute Pl.

Filing Cabinets, Blue Print, Wood

Ill., Chicago

Pease Co., C. F., 219 W. Institute Pl.

Fillers, Automatic Machinery

Ill., Chicago

Creamery Package Mfg. Co., 61 W. Kinzie St.

Liquid Carbonic Co., 31st St. and Kinzie Ave

N. Y., Buffalo

Rice & Adams Corp.

Fillers, Paper

Ill., Chicago

Victor Chemical Works, 345 S. Dearborn St

Mich., Kalamazoo

Western Paper Makers Chemical Co.

N. Y., New York City

St. Lawrence Talc Co., 7 E. 42d St.

Talc Products Co., 11 Pine St.

N. Y., Syracuse

Solvay Process Co.

Filling and Closing Collapsible Tubes, Machines

Pa., New Brighton

Standard Specialty & Tube Co.

Filling Tower, Acid Proof

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice E.

Filter Bags

Md., Baltimore

Mt. Vernon-Woodberry Mills, Inc.

N. Y., New York City

Turner, Halsey Co., 62 Leonard St.

Utah, Salt Lake City

Filter Fabrics Co., The, Felt Bldg.

Filter Bottoms, for Tanks

Colo., Denver

Colorado Iron Works Co.

Filter Cloth (*see Cloth, Filter*)**Filter Masse***N. Y., New York City*

Reeve, Angel & Co., Inc., H., 120 Liberty St.

Filter Paper (*see Paper, Filter*)**Filter Plates***Ill., Batavia*

Sperry & Co., D. R.

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

Ohio, Zanesville

Ohio Pottery Co., Dearborn St.

Filter Plates, Acid Proof*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Filter Presses (*see Presses, Filter*)**Filter Press Sacks***N. Y., New York City*

Stanley, W. W., 50 Church St

Filter Pulp*N. Y., New York City*

Reeve, Angel & Co., Inc., H., 120 Liberty St.

Filter Racks*N. J., Newark*

Williamson, C. T.

N. Y., New York City

Estey Wire Works, 32 Cliff St.

Maris & Co., J. M., 40 Barclay St.

Filter Sand*Ill., Chicago*

United States Silica Co., 418 People's Gas Bldg.

Filter Wheel, Continuous Rotary Vacuum*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Filtering Material*Ill., Monmouth*

Western Stoneware Co

N. J., Newark

Newark Wire Cloth Co

N. J., Passaic

Brighton Mills

N. Y., New York City

Celite Products Co., 11 Broadway

Turner, Halsey Co., 62 Leonard St.

N. Y., New York City

Angel & Co., H. Reeve, 7-11 Spruce St.

General Ceramics Co., 50 Church St.

Multi Metal Separating Screen Co., 251 W. 19th St.

N. Y., Rochester

General Filtration Co.

Ohio, Akron

U. S. Stoneware Co

Ohio, East Akron

Knight, Maurice A.

Utah, Salt Lake City

United Filters Corporation, Felt Bldg.

Filters, Acid*N. Y., Brooklyn*

Johnson Co., John, 37th and 2d Ave.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Utah, Salt Lake City

United Filters Corp.

Filters, Acid Proof*Cal., San Francisco*

Oliver Continuous Filter Co., 505 Market St.

N. Y., Rochester

General Filtration Co., Inc., Cutler Bldg.

N. Y., New York City

Industrial Filtration Corp., 115 Broadway

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A

Filters, Air*N. Y., Buffalo*

Buffalo Foundry & Machine Co.

N. Y., New York City

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Filters, Clarifying*Cal., San Francisco*

Oliver Continuous Filter Co., 503 Market St

Ill., Batavia

Sperry & Co., D. R

Ill., Chicago

U. S. Bottlers Machinery Co., 2511-17 Park Ave.

Mass., Fall River

Scott & Co., Ernest

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

N. J., Harrison

Shriver & Co., T.

Filters, Clarifying—cont.

- N. J., Jersey City*
Koven & Bro., L. O., 200 Ogden Ave.
- N. Y., Brooklyn*
Johnson Co., John, 37th St. and 2d Ave.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co.
Devine Co., J. P.
- N. Y., New York City*
De Laval Separator Co., 165 Broadway
General Ceramics Co., 50 Church St.
Industrial Filtration Corporation, 115 Broadway
Lungwitz, Emil E., 30 Church St.
- N. Y., Rochester*
General Filtration Co., Cutler Bldg.
- Ohio, Akron*
U. S. Stoneware Co., 174-178 Annandale Ave.
- Ohio, East Akron*
Knight, Maurice A.
- Pa., Philadelphia*
Kestner Evaporator Co., 18th St. and Allegheny Ave.
- Utah, Salt Lake City*
Kelly Filter Press Co.
United Filters Corp., Felt Bldg.

Filters, Continuous

- N. Y., New York City*
United Filters Corporation, 65 Broadway

Filters, Gases

- N. Y., New York City*
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Gooch

- Md., Woodlawn*
Powhatan Mining Co.

Filters, Gravity

- N. Y., New York City*
Industrial Filtration Corp., 115 Broadway
- Utah, Salt Lake City*
United Filters Corp.

Filters, Industrial (see *Filters, Chemicals*)**Filters, Iron Removal**

- N. Y., New York City*
Permutit Co., The, 440 4th Ave.

Filters, Manganese Removal

- N. Y., New York City*
Permutit Co., The, 440 4th Ave.

Filters, Metallurgical Smoke

- N. Y., New York City*
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Oil

- Cal., Los Angeles*
Sirch, C. W., 126 W. 3d St.
- Ill., Batavia*
Sperry & Co., D. R.
- Ind., Ft. Wayne*
Bowser & Co., S. F.
- Mass., Boston, Hyde Park*
Plouff Co., 1558 River St.
- N. J., Jersey City*
Koven & Bro., L. O., 1540 Ogden Ave.
- N. Y., Brooklyn*
Johnson Co., John, 37th and 2d Aves.
- N. Y., New York City*
Permutit Co., The, 440 4th Ave.
- Utah, Salt Lake City*
United Filters Corp.

Filters, Pulp

- Cal., San Francisco*
Oliver Continuous Filter Co.
- Ill., Batavia*
Sperry & Co., D. R.
- N. J., Harrison*
Shriver & Co., T.
- N. Y., Brooklyn*
Johnson Co., John, 37th St. and 2d Ave.
- N. Y., New York City*
Industrial Filtration Corporation, 115 Broadway
Lungwitz, Emil E., 30 Church St.
- Utah, Salt Lake City*
United Filters Corporation, Felt Bldg.

Filters, Salt

- Ill., Chicago*
Redfield, Robert S., 327 S. La Salle St.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Filters, Slime

- Colo., Denver*
Colorado Iron Works Co.
- Ill., Chicago Heights*
Chalmers & Williams, Inc.
- N. Y., New York City*
United Filters Corporation

Filters, Sludge

- Cal., Los Angeles*
Sirch, C. W., 126 W. 3d St.

Filters, Softening

N. Y., New York City
Permutit Co., The, 440 4th Ave.

Filters, Suction

Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.
Ohio, East Akron
Knight, Maurice A.
Utah, Salt Lake City
United Filters Corp.

Filters, Suction, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The
Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Filters, Vacuum

Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.
N. J., Harrison
Shriver & Co., T.
N. Y., New York City
Industrial Filtration Corporation, 115 Broadway
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
Utah, Salt Lake City
United Filters Corporation, Felt Bldg

Filters, Washing

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.
Ill., Chicago
International Filter Co.
Ind., East Chicago
Graver Tank Works, Wm.
Mass., Florence
Norwood Engineering Co.
N. J., Jersey City
Koven & Brother, L. O.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
International Filtration Corp., 115 Broadway
Lungwitz, Emil E., 30 Church St.
Griscom-Russell Co., 90 West St.
N. Y., Syracuse
Booth Apparatus Co., Warren St.

N. Y., Troy
Ross Valve Mfg. Co.
Pa., Chester
Wetherill & Co., Robert
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 First Ave.
Utah, Salt Lake City
United Filters Corporation, Felt Bldg.

Filters, Water, Industrial

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Mich., Detroit
Hygeia Filter Co.
N. Y., New York City
New York Continental Jewell Filtration Co.

Filters, Wax

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.

Filtration Plant Equipment

N. Y., New York City
International Filtration Corp., 115 Broadway

Filtration Plants, Gas

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filtros

N. Y., Rochester
General Filtration Co., Inc., 325 Cutler Bldg.

Fire Alarm Equipments

N. Y., New York City
Ostrander & Co., W. R., 371 Broadway

Fire Engines (*see Engines, Fire; also Chemical Engines*)

Fire Extinguishers (*see also Chemical Engines*)

Ill., Chicago
Justrite Mfg. Co., 2061 Southport Ave.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
American Fire Apparatus Co.
Automatic Sprinkler Co., of America
123 William St.
Hayward & Co., S. F., 250 W. 54th St.
Johns-Manville Co., H. W., 296 Madison Ave.
Montgomery & Co., Inc., 105-107 Fulton St.
Pyrene Mfg. Co., 52 Vanderbilt Ave.
R. I., Providence
General Fire Extinguisher Co.
Wis., Milwaukee
Erwin Mfg. Co.

Fire Extinguishers, Hand Chemical*Mass., Boston*Badger Fire Extinguisher Co., Inc.,
34 Portland St**Fire Pots, Gas***Mich., Detroit*

Detroit Heating & Lighting Co.

*N. Y., New York City*Tirrill Gas Machine Lighting Co., 103
Park Ave.**Fireproofing (Hollow Tile)***N. Y., New York City*Celite Products Co., 11 Broadway
Maurer & Sons, Henry, 420 E. 23d St.**Fire Protection Devices***N. Y., New York City*

Hayward & Co., S. F., 250 W. 54th St.

Fittings, Acid Proof*Ga., Atlanta*

Pratt Engineering & Machine Co.

*Ill., Chicago*Jones Foundry & Machine Co., W. A.,
4402 W. 12th St.*Md., Baltimore*

Bartlett-Hayward Co.

*Mich., Detroit*Russell Wheel & Foundry Co., Chene
& B. L. R. R.*N. J., Burlington*

U. S. Cast Iron Pipe & Foundry Co.

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

N. J., Harrison

Driver-Harris Wire Co.

N. J., Newark

Acid Proof Iron Products Co., Inc.

*N. Y., Buffalo*Buffalo Foundry & Machine Co., 47
Winchester St.

Farrar & Trefts, 47 Perry St.

*N. Y., New York City*Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th
Ave.Metals Production Equipment Co.,
165 Broadway

Roos' Son, August, 429 E. 91st St.

Stevens Brothers, 928 Singer Bldg.

Thermal Syndicate, Ltd., 508 41st St.

United Lined Tube & Valve Co., 111
Broadway

Wilfert Co., John

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc.

*Ohio, Cincinnati*Lunkenheimer Co., Beekman and
Waverly Sts.*Pa., Homestead*

Homestead Valve Mfg. Co.

*Pa., Philadelphia*Chester Steel Castings Co., 407 San-
som St.

Midvale Steel Co., Widener Bldg.

Wood & Co., R. D., 400 Chestnut St.

Pa., Pittsburgh

Edgewater Steel Co.

Marshall Foundry Co., 28th and R. R.
Sts.*Pa., South Bethlehem*

Bethlehem Foundry & Machine Co.

Bethlehem Steel Co.

Fittings, Aluminium*Ill., Chicago*Sturges & Burr Mfg. Co., 508 S. Green
St.*N. J., Newark*

Metal Products Co.

Pa., Pittsburgh

Aluminum Co. of America

Fittings, Ammonia*N. Y., New York City*De LaVergne Machine Co., 1205 E.
138th St.*Pa., Carbondale*

Carbondale Machine Co

Pa., York

York Mfg. Co.

Wis., Milwaukee

Vilter Mfg. Co., 824 Clinton St.

Fittings, Brass*Conn., Hartford*

Pratt & Cady Co.

Ill., Chicago

Crane Co.

*Mo., St. Louis*Nelson Mfg. Co., N. O., Tenth and
Chestnut Sts.*N. Y., Elmira*

Kennedy Valve Mfg. Co.

*N. Y., New York City*American Brass & Copper Co., 138
Lafayette Ave.

Larkin & Co., J. K., 34 Reade St.

Welding Supply Co., Inc., 132 Nassau
St.

Wilfert Co., John, 259 Broadway

*Ohio, Cincinnati*Lunkenheimer Co., Beekman and
Waverly Sts.Powell Co., Wm., 2521-31 Spring Grove
Ave.*Ohio, Mansfield*

Ohio Brass Co.

Pa., Erie

Jarecki Mfg. Co.

Pa., Homestead

Homestead Valve Mfg. Co

Pa., Pittsburgh

National Tube Co., 1802 Frick Bldg.

Pittsburgh Valve, Foundry and Con-
struction Co., P. O. Box 1016

Fittings, Brine*Neb., Omaha*

Baker Ice Machine Co.

N. Y., New York City

Wilfert & Co., John, 259 Broadway

Ohio, Cincinnati

Triumph Ice Machine Co.

Pa., York

York Mfg. Co.

Fittings, Cast Iron*Ala., Birmingham*

American Cast Iron Pipe Co.

Cal., Los Angeles

Llewellyn Iron Works

N. J., Bayonne

Bayonne Castings Co.

N. J., East Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co

Sowers Mfg. Co.

N. Y., Elmira

Kennedy Valve Mfg. Co

N. Y., New York City

Duriron Castings Co., 90 West St

Stevens Bros., Singer Bldg

Wilfert Co., John, 259 Broadway

Ohio, Alliance

Morgan Engineering Co.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co

Pa., South Bethlehem

Bethlehem Steel Co

Wis., Milwaukee

Cham Belt Co

Vilter Mfg. Co

Fittings, Cast Steel (*see Steel Plate Construction*)**Fittings, Chemetal***N. Y., L. I., Rockville Centre*

Nassau Valve & Pump Co., Inc

Fittings, Copper (*see Fittings, Brass*)**Fittings, Flanged***N. Y., New York City*

Kellogg Co., The M. W., 90 West St.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Fittings, Gas Mains (*see Fittings, Cast Iron*)**Fittings, Glass Enamel***N. Y., Rochester*

Pfaudler Co.

Ohio, Elyria

Elyria Enameled Products Co.

Fittings, Hydraulic*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

N. Y., New York City

Larkin & Co., J. K., 34 Reade St.

Wilfert Co., John, 259 Broadway

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Fittings, Lead Lined*N. Y., Brooklyn*

Abernathy, John F., 703 Myrtle Ave.

N. Y., New York City

United Lined Tube & Valve Co., 111 Broadway

Fittings, Malleable Iron*Conn., Branford*

Malleable Iron Fittings Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

N. Y., New York City

Larkin & Co., J. K., 34 Reade St.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Fittings, Pump (*see Pumps, Various Headings*)**Fittings, Rubber***Conn., Bridgeport*

Canfield Rubber Co

Mass., Andover

Tyler Rubber Co

N. J., Trenton

Luzerne Rubber Co.

N. Y., New York City

American Hard Rubber Co., 9 Mercer St

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

R. I., Providence

Davol Rubber Co.

Fittings, Steel (*see Steel Plate Construction*)**Fittings, Stoneware***Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Fittings, Tank*N. Y., Brooklyn*

Johnson Co., John, 37th St. and 2d Ave.

Fittings, Tin Lined*N. Y., New York City*

United Lined Tube & Valve Co., 111 Broadway

Fittings, Tower*Ga., Atlanta*

Hood Brick Co., B. Mifflin, Candler Bldg.

Ill., Monmouth

Western Stoneware Co.

Ind., East Chicago

Graver Tank Works, Wm.

Mass., Boston

New England Tank & Power Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Stevens Bros., Singer Bldg.

Thermal Syndicate, Ltd., 50 E. 41st St

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Fittings, Vulcanized*N. Y., New York City*

Gutta Percha & Rubber Mfg. Co., 126 Duane St.

Fittings, Water Main (*see Fittings, Cast Iron*)**Fixtures, Laboratory** (*see Laboratory Apparatus and Equipment*)**Fixtures, Moisture-Proof***Ill., Chicago*

Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Fixtures, Weatherproof (Heavy Duty)*Ill., Chicago*

Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Flanges, Pipe, Cast Iron (*see Fittings, Cast Iron*)**Flanges, Pipe, Rubber** (*see Fittings, Rubber*)**Flasks***England, Birmingham*

Belchers (Standley) & Mason, Ltd., Church St.

N. Y., New York City

Scientific Utilities Co., Inc., 84 E. 10th St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Pa., Carbondale

Griebel Instrument Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Flasks, Assay*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Flasks, Carbonic Acid*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Flasks, Chemical (*see Laboratory Apparatus and Equipment*)**Flasks, Culture***N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Flasks, Distillation*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Flasks, Erlenmeyer*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Flasks, Extraction*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Flasks, Filtering*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Flasks, Fractional Distillation*N. Y., Rochester*

Will Corporation

Flasks, Fused Silica*N. Y., New York City*

Sidio Co. of America, 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Flasks, Giles'*N. Y., Rochester*

Will Corporation

Flasks, Glass

England, Birmingham
Belchers (Standley) & Mason, Ltd.,
Church St.
N. J., Millville
International Glass Co.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.
Pa., Rochester
Fry Glass Co., H. C.

Flasks, Kjeldahl

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Saponification

N. Y., Rochester
Will Corporation

Flasks, Sugar

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Volumetric

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Scientific Utilities Co., Inc., 81 E. 10th St.

Flasks, Watering

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flooring, Fireproof

Ill., Chicago
U. S. Gypsum Co., 205 W. Monroe St.
Pa., Pittsburgh
National Fire Proofing Co., Fulton Bldg.

Flooring, Laboratory

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Troegerlith Tile Co., 103 Park Ave.

Flooring, Steel (see *Steel Plate Construction*)**Floors, Acid Proof**

Ill., Chicago
Standard Asphalt & Refining Co., 208 S. La Salle St.
N. Y., New York City
Barrett Co., 17 Battery Pl.
Johns-Manville Co., H. W.

Floors, Alkali Proof

Ill., Chicago
Standard Asphalt & Refining Co., 208 S. La Salle St.
N. Y., New York City
Barrett Co., 17 Battery Pl.
Johns-Manville Co., H. W.

Floors for Chemical Plants

Ill., Chicago
American Magnesia Products Co., 600 W. Austin Ave.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Flour Milling Machinery

Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Flour Testing Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.

Flue Blowers (see also *Blowers*)

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Flue Cleaners

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Flue Gas Instruments

Ill., Chicago
Dwight Mfg. Co., 12-14 S. Jefferson St.

Flue Lining

Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Flue Pipes*Ala., Birmingham*

American Cast Iron Pipe Co.

N. J., East Burlington

U. S. Cast Iron Pipe & Foundry Co.

*N. Y., New York City*Dover Boiler Works, 50 Church St.
Stevens Bros., Singer Bldg.*Ohio, Leetonia*

Leetonia Boiler Co., Kunkel Bldg.

Pa., Pittsburgh

National Tube Co.

Flue Welding Machines*Ohio, Cincinnati*

Macleod Co., The, 2232-36 Bogen St.

Flues, Smoke*N. J., Burlington*

United States Cast Iron, Pipe & Foundry Co.

Flumes*Ill., Chicago*

Chicago Bridge & Iron Works

Mich., Saginaw

Wickes Boiler Co.

N. Y., New York City

Dover Boiler Works, 55 Church St

Ohio, Alliance

Reeves Bros. Co.

Pa., Coatesville

Coatesville Boiler Works

Pa., Pittsburgh

Scaife & Sons Co., Wm. B.

Flushers*Cal., Los Angeles*

Llewellyn Iron Works

Ind., South Bend

Studebaker Corp.

Forehearths*Colo., Denver*

Colorado Iron Works Co

Forges, Bench*N. Y., New York City*

American Gas Furnace Co., 24 John St.

Forges, Brazing*N. Y., Brooklyn*

Hauck Mfg. Co., 101-13 Eleventh St

Forges, Compressed Air*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

N. Y., Buffalo

Buffalo Forge Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Forges, Gas*N. Y., New York City*

American Gas Furnace Co., 24 John St

Forges, Portable, Oil*Mass., Boston*

Sturtevant Co., B. F., Hyde Park

N. Y., Buffalo

Buffalo Forge Co.

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

Formaldehyde Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Devine Co., J. P.

N. Y., New York City

Kalbperly Corp., 31 Union Sq., W.

Foundries, Cast Iron*Wis., Milwaukee*

Northmann Duffke Ldye Co., 1210 27th Ave

Foundry Riddles*N. J., Newark*

Newark Wire Cloth Co., 228 Verona Ave.

N. Y., New York City

Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Cleveland

Tyler Co., The W. S., Superior Ave. and 36th St.

Frames, Blue Print*Ill., Chicago*

Pease Co., C. F., 213-31 Institute Pl.

Fronts, Furnace*N. Y., Buffalo*

Buffalo Foundry & Machine Co.

N. Y., New York City

Stevens Bros., Singer Bldg

Pa., Fullerton

Fuller-Lehigh Co

Fruit Essence Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

Fuel Economizers*Mass., Boston*

Sturtevant Co., B. F., Hyde Park

N. Y., New York City

Green Fuel Economizer Co., 90 West St.

Fumigating Apparatus*N. Y., New York City*

Hospital Supply Co., 53 5th Ave.

Fumigating Machinery*Cal., Los Angeles*

Braun Corp., The, 363 New High St.

Funnels, Acid Proof*N. J., Newark*

American Platinum Works, 225 N. J. R. R. Ave.

Baker & Co., Inc.

N. Y., New York City

General Ceramics Co., 50 Church St.

Sidco Co. of America, Inc., 37 Murray St

Ohio, Cambridge

Cambridge Glass Co.

Ohio, East Akron

Knight, Maurice A.

Pa., Carbondale

Griebel Instrument Co.

Funnels, Aluminium*Pa., Philadelphia*

Hero Mfg. Co.

Funnels, Buechner*Ohio, Zanesville*

Ohio Pottery Co., Dearborn St

Funnels, Enameled*Ohio, Elyria*

Elyria Enameled Products Co.

Funnels, Glass*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daugher & Co., A., 52-56 W. Kinzie St.

Deegan Supply Co., 116 122 W. Illinois St

Md., Baltimore

Swindell Bros.

N. J., Millville

International Glass Co.

N. Y., Corning

Corning Glass Works

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Maris & Co., J. M.

Ohio, Columbus

*Laboratory Supply Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Whitall-Tatum Co., 410 Race St.

Pa., Pittsburgh

Macbeth Evans Glass Co.

Funnels, Hard Rubber*Mass., Andover*

Tyler Rubber Co.

N. Y., New York City

American Hard Rubber Co., 11 Mercer St.

U. S. Rubber Co., 1790 Broadway

Funnels, Separating (see Laboratory Apparatus and Equipment)**Funnels, Stoneware***N. Y., New York City*

General Ceramics Co., 50 Church St.

Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co

Ohio, East Akron

Knight, Maurice A.

Furnace, Bench*Iowa, Cedar Rapids*

Johnson Gas Appliance Co

Furnace Settings for Caustic Pots, Fusion Kettles and Carbon Bisulphide Retorts*Mich., W. S., Saginaw*

Nickle, Frank H., 1321 N. Bond St.

Furnaces, Air Tempering*N. Y., New York City*

American Gas Furnace Co., 24 John St.

Furnaces, Annealing*Cal., Los Angeles*

*Braun Corp., The, 363 New High St.

Ill., Harvey

Whiting Foundry Equipment Co.

Iowa, Cedar Rapids

Johnson Gas Appliance Co.

Md., Baltimore

Monarch Engineering & Mfg. Co., 1206 American Bldg

Mass., Boston

American Incandescent Heat Co., Inc., 10 Post Office Sq.

Mass., Springfield

Gilbert & Barker Mfg. Co.

N. J., Jersey City

Koven & Bro., L. O., 200 Ogden Ave.

N. J., Newark

Electric Heating Apparatus Co.

Furnaces, Annealing—cont.*N. Y., Long Island City*

Anthony Co., The, 138 West Ave.
Surface Combustion Co., Wilbur Ave.
and Sunswick St.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Best, Inc., W. N., 11 Broadway
Boker & Co., Inc., H., Broadway and
Duane Sts.

Dwight & Lloyd Sintering Co., 29
Broadway

Quigley Furnace Specialties Co., Inc.,
25 Church St.

Rockwell Co., W. S., 50 Church St.

N. Y., Schenectady

General Electric Co.

Pa., Philadelphia

Brown Instrument Co.

Pa., Pittsburgh

McClure Son & Co., G. W., Bessemer
Bldg.

Tate-Jones & Co., Empire Bldg.

Furnaces, Assaying*Cal., Los Angeles*

Calkins Co., 348 N. Main St.

Cal., San Francisco

*Braun-Knecht-Heimann Co., 576 Mis-
sion St.

Colo., Denver

Denver Fire Clay Co., 1742 Champa
St.

Md., Baltimore

Monarch Engineering & Mfg. Co.,
American Bldg.

Mich., Detroit

Hoskins Mfg. Co., 453-471 Lawton Ave.

Mo., St. Louis

*Heil Chemical & Mfg. Co., 216 S. 4th
St.

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway

*Berge, J. & H., 93 John St.

*Eimer & Amend, 205-211 3d Ave.

Mine & Smelter Supply Co., 42 Broad-
way

Rockwell Co., W. S., 50 Church St.

Pa., Philadelphia

Thomas Co., Arthur H., W. Washing-
ton Square

Furnaces, Babbitt Metal*Mass., Springfield*

Quigley Furnace & Foundry Co.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Rockwell Co., W. S., 50 Church St.

N. Y., Schenectady

General Electric Co.

Ohio, Cincinnati

Macleod Co., The, 2232-36 Bogen St.

Ohio, Cleveland

Strong, Carlisle & Hammond Co., 336
Frankfort, N. W.

Pa., Pittsburgh

Tate, Jones & Co., Empire Bldg.

Furnaces, Bar*Md., Baltimore*

Monarch Engineering & Mfg. Co.,
1206 American Bldg

Furnaces, Barium Chloride*Md., Baltimore*

Monarch Engineering & Mfg. Co.,
1206 American Bldg

Furnaces, Blast*Colo., Denver*

Colorado Iron Works Co., 33d and
Wynkoop St.

Mich., Muskegon

Muskegon Boiler Works

N. J., Newark

Electric Heating Apparatus Co.

N. Y., Brooklyn

Improved Appliance Co., 413 419 Kent
Ave

N. Y., Buffalo

Buffalo Dental Mfg. Co.

N. Y., New York City

Abbe Engineering Co.
Beach-Russ Co., 220 Broadway

Berge, J. & H.

Dover Boiler Works, 55 Church St.

Quigley Furnace Specialties Co., Inc.,
25 Church St.

Rockwell Co., W. S., 50 Church St.

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Pa., Coatesville

Coatesville Boiler Works

Pa., Pittsburgh

McClure Son & Co., G. W.

Tate, Jones & Co., Empire Bldg.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Furnaces, Blast, Gas*N. J., Newark*

Electric Heating Apparatus Co.

N. Y., Buffalo

Buffalo Dental Mfg. Co.

N. Y., New York City

Abbe Engineering Co.
American Gas Furnace Co., 24 John St.

Beach-Russ Co., 220 Broadway

Berge, J. & H.

Quigley Furnace Specialties Co., Inc.,
25 Church St.

Rockwell Co., W. S., 50 Church St.

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Furnaces, Blast, Gas—cont.*Pa., Pittsburgh*

McClure Son & Co., G. W.

Tate-Jones & Co., Empire Bldg.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Furnaces, Bolt*Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Brass, Malleable***Ill., Harvey*

Whiting Foundry Equipment Co.

Furnaces, Brazing*Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Bullion***Colo., Denver*

Colorado Iron Works Co.

Furnaces, Calcining*Md., Baltimore*Meade & Co., Richard K., 608 Law
Bldg.**Furnaces, Carbon Combustion***Pa., Pittsburgh*Crucible Steel Co. of America, 30th
and Smallman Sts.**Furnaces, Carbonizing***Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Case Hardening** (*see also Furnaces, Annealing*)*Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Cauldron***N. Y., Brooklyn*Improved Appliance Co., 413-419 Kent
Ave.**Furnaces, Chemical** (*see also Specific Headings*)*Md., Baltimore*Meade & Co., Richard K., 608 Law
Bldg.**Furnaces, Combustion, Hevi-Duty***N. J., Newark*Electric Heating Apparatus Co., 123-
125 Sussex Ave.**Furnaces, Combustion, Multiple Unit***N. J., Newark*Electric Heating Apparatus Co., 123-
125 Sussex Ave.**Furnaces, Copper Matting***Colo., Denver*

Colorado Iron Works Co.

Furnaces, Copper Smelting*Colo., Denver*

Colorado Iron Works Co.

Furnaces, Crucible (*see Furnaces, Assaying*)**Furnaces, Crucible, Hevi-Duty***N. J., Newark*Electric Heating Apparatus Co., 123-
125 Sussex Ave.**Furnaces, Crucible, Multiple Unit***N. J., Newark*Electric Heating Apparatus Co., 123-
125 Sussex Ave.**Furnaces, Crucible, Pit***Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Crucible, Stationary***Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Crucible, Tilting***Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Cupelling***Colo., Denver*

Colorado Iron Works Co.

Furnaces, Cyanide*Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Cyanide Hardening***N. Y., New York City*

American Gas Furnace Co., 24 John St.

Furnaces, Electric*Ill., Chicago*

Central Scientific Co., 460 E. Ohio St.
Chicago Retort & Fire Brick Co., 204
S. La Salle St.

Industrial Electric Furnace Co., 53 W.
Jackson Blvd.

Schaar & Co., 1025 S. State St.

Mich., Detroit

Hoskins Mfg. Co., 453-471 Lawton
Ave.

N. J., Newark

Electric Heating Apparatus Co., 123-
125 Sussex Ave.

*Hanovia Chemical & Mfg. Co., Chest-
nut St. and New Jersey Railroad
Ave.

N. J., Trenton

Pyroelectric Instrument Co., 636-640 E.
State St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Englehard, Charles, 30 Church St.

Foley, Inc., Charles B., 170 Broadway
Hamilton & Hansel, 17 Battery Pl.

N. Y., Schenectady

General Electric Co.

Ohio, Alliance

Electric Furnace Co. of America

Pa., Philadelphia

Ajax Metal Co., 46 Richmond St.

*Thomas Co., Arthur H., W. Washing-
ton Sq.

Queen Gray Co., 618 Chestnut St.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co

Furnaces, Electric, Organic Combustion*N. J., Newark*

Electric Heating Apparatus Co., 123-
125 Sussex Ave.

Furnaces, Electric, Multiple Unit*N. J., Newark*

Electric Heating Apparatus Co., 123-
125 Sussex Ave.

Furnaces, Enameling*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc.,
25 Church St.

R. I., Providence

United States Gas Furnace Co.

Furnaces, Forging*Md., Baltimore*

Monarch Engineering & Mfg. Co., 1206
American Bldg.

N. Y., Buffalo

Buffalo Forge Co., 490 Broadway

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

N. Y., New York City

Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc.,
25 Church St.

R. I., Providence

U. S. Gas Furnace Co.

Furnaces, Galvanizing*N. Y., New York City*

Quigley Furnace Specialties Co., Inc.,
25 Church St.

Furnaces, Gas*Iowa, Cedar Rapids*

Johnson Gas Appliance Co., 520 E.
Ave. W.

Mass., Springfield

Gilbert & Barker Mfg. Co.

Minn., Minneapolis

Mahr Mfg. Co., 1300-1310 Quincy St.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
General Chemical Co., 25 Broad St.
Provost Engineering Corp., 220 Broad-
way

N. Y., Syracuse

Syracuse Industrial Gas Co., 483 S.
Salina St.

**Furnaces, Hardening (see Fur-
naces, Annealing and Tempering)****Furnaces, Heat Treating***Mass., Springfield*

Gilbert & Barker Mfg. Co.

Mich., Detroit

Steele Engineering Co., Woodward
Ave.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc.,
25 Church St.

Pa., Pittsburgh

Hagan Co., George J., 401 People's
Bank Bldg.

Furnaces, Hot Blast*Colo., Denver*

Colorado Iron Works Co.

Furnace Insulation*N. Y., New York City*

Celite Products Co., 11 Broadway

Furnaces, Laboratory (*see Furnaces, Assaying and Crucible, Electric*)

Furnaces, Lead, Hardening, Melting, Tempering

Ohio, Cincinnati

Macleod Co., The, 2232-36 Bogen St.

Md., Baltimore

Monarch Engineering & Mfg. Co., 1206 American Bldg.

Mass., Springfield

Gilbert & Barker Mfg. Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Quigley Furnace Specialties Co., Inc.,
25 Church St.

Furnaces, Lead Smelting

Colo., Denver

Colorado Iron Works Co.

Furnaces, Melting

Ill., Batavia

Sperry & Co., D. R.

Mass., Springfield

Gilbert & Barker Mfg. Co.

N. J., Jersey City

Koven & Brother, L. O., 154 Ogden Ave.

N. Y., Brooklyn

Hauck Mfg. Co., 101-113 Eleventh St.

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

Stuebner Iron Works, G. L., Hancock St. and Vernon Ave.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Best, Inc., W. N., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway

*Palo Co., 90-92 Maiden Lane

Quigley Furnace Specialties Co., Inc.,
25 Church St.

Ohio, Cincinnati

Macleod Co., 2232 Bogen St.

Ohio, Cleveland

Wellman-Seaver-Morgan Co.

R. I., Providence

National Gas Furnace Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Furnaces, Metallurgical (*see Furnaces, Melting*)

Furnaces, Muffle

Colo., Denver

Colorado Iron Works Co.

Ill., Chicago

*Schaar & Co., 1025 S. State St.

Md., Baltimore

Monarch Engineering & Mfg. Co., 1206 American Bldg.

Mass., Springfield

Gilbert & Barker Mfg. Co.

Mich., Detroit

Hoskins Mfg. Co.

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Mine & Smelter Supply Co., 42 Broadway

*Palo Co., 90-92 Maiden Lane

Quigley Furnace Specialties Co., Inc.,
25 Church St.

Ohio, Cleveland

Macleod Co., 2232 Bogen St.

R. I., Providence

National Gas Furnace Co.

Furnaces, Muffle, Hevi-Duty

N. J., Newark

Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Muffle, Laboratory, Electric

Pa., Pittsburgh

Crucible Steel Co. of America, 30th and Smallman Sts.

N. Y., New York City

Electric Heating Apparatus Co., 25 Church St.

Furnaces, Muffle, Multiple Unit

N. J., Newark

Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Non-Oxidizing

Conn., Waterbury

Kenworthy, Inc., Charles F.

Furnaces, Oil Burning

Conn., Waterbury

Kenworthy, Inc., Charles N.

Mass., Springfield

Gilbert & Barker Mfg. Co.

Mich., Detroit

Standard Fuel Appliance Co.

N. Y., Long Island City

Anthony Co., The, 138 West Ave.

N. Y., New York City

American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway

Ingersoll-Rand Co., 11 Broadway

Mine & Smelter Supply Co., 42 Broadway

Quigley Furnace Specialties Co., Inc.,
25 Church St.

Furnaces, Oil Fired*Minn., Minneapolis*

Mahr Mfg. Co., 1300-1310 Quincy St.

Furnaces, Oil Tempering*Mass., Springfield*

Gilbert & Barker Mfg. Co.

N. Y., New York City

American Gas Furnace Co., 24 John St.

Furnaces, Oven*N. Y., Brooklyn*

Improved Appliance Co., 413-419 Kent Ave.

Furnaces, Pot, Iron*Md., Baltimore*Monarch Engineering & Mfg. Co.,
1206 American Bldg.**Furnaces, Powdered Coal** (*see**Furnaces, Melting*)**Furnaces, Producer Gas***N. Y., New York City*

Akerlund & Semmes, Inc., 17 Battery Pl.

Furnaces, Refining*Colo., Denver*

Colorado Iron Works Co.

*N. Y., New York City*Quigley Furnace Specialties Co., Inc.,
25 Church St.*Ohio, Cincinnati*

Macleod Co., 2232 Bogen St.

Furnaces, Retort*Colo., Denver*

Colorado Iron Works Co.

Furnaces, Rivet*Md., Baltimore*Monarch Engineering & Mfg. Co., 1206
American Bldg.**Furnaces, Roasting** (*see Furnaces,
Annealing; Furnaces, Assaying*)**Furnaces, Rotary***Md., Baltimore*Meade & Co., Richard K., 608 Law
Bldg.*N. Y., New York City*International Process Co., 5 Beekman
St.**Furnaces, Silver Smelting***Colo., Denver*

Colorado Iron Works Co.

Furnaces, Smelting (*see Furnaces,
Annealing; Furnaces, Assaying*)**Furnaces, Soft Metal***N. Y., Brooklyn*Improved Appliance Co., 413-419 Kent
Ave.*N. Y., New York City*

American Gas Furnace Co., 24 John St.

Ohio, Cincinnati

Macleod Co., The, 2232-36 Bogen St.

Furnaces, Solder*Md., Baltimore*Monarch Engineering & Mfg. Co., 1206
American Bldg.**Furnaces, Steel, Graphite***Pa., East Pittsburgh*

Westinghouse Electric Mfg. Co.

Furnaces, Steel, Ore Smelting*Pa., East Pittsburgh*

Westinghouse Electric Mfg. Co.

Furnaces, Stills*N. Y., New York City*

Mott Iron Works, J. L., 118 5th Ave.

Furnaces, Sulphate*Pa., Fullerton*

Fuller-Lehigh Co.

**Furnaces, Sulphur, for Producing
Sulphurous Acid***Pa., Philadelphia*Schautte & Koerting Co., 12th and
Thompson Sts.**Furnaces, Tank***N. Y., Brooklyn*Improved Appliance Co., 413-419 Kent
Ave.**Furnaces, Tempering** (*see Fur-
naces, Annealing*)**Furnaces, Tinning Baths***N. Y., Brooklyn*

Hauck Mfg. Co., 101-113 Eleventh St.

Furnaces, Vacuum*N. Y., Schenectady*

General Electric Co.

Furnaces, Welding (*see also Fur-
naces, Electric*)*Md., Baltimore*Monarch Engineering & Mfg. Co., 1206
American Bldg.*N. Y., New York City*Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc.,
25 Church St.*Ohio, Cincinnati*

Macleod Co., 2232 Bogen St.

Fuses, Blasting*Del., Wilmington*

Atlas Powder Co.

Du Pont de Nemours Co., E. I.

Hercules Powder Co.

Galvanizing*Conn., Branford*

Malleable Iron Fittings Co.

Conn., Bridgeport

American Tube & Stamping Co.

Conn., Middletown

Wileox Crittender & Co.

Ill., Chicago

Illinois Malleable Iron Co.

N. J., Jersey City

Koven & Brother, L. O., 151 Ogden Ave

Pa., Erie

Erie Foundry Co.

Pa., Reading

Gray Iron Foundry Co.

R. I., Providence

Hill Mfg. Co., Jas.

Galvanometers (*see Electric Measuring Instruments*)**Galvanometers, A. C.***N. J., Trenton*

Pyroelectric Instrument Co., 636-640 E State St.

Galvanometers, D. C.*N. J., Trenton*

Pyroelectric Instrument Co., 636-640 E State St

Garbage Burners (*see Destructors, Refuse*)**Garbage Disposal Machinery** (*see Destructors, Refuse*)**Garnet Paper***Mass., Boston*

American Glue Co., 121 Beverly St.

Gas Analysis Apparatus*England, Birmingham*

Belchers (Standley) & Mason, Ltd., Church St.

*Ill., Chicago**Central Scientific Co., 460 E. Ohio St.
Combustion Appliances Co., 1778 Estes Ave.

*Schaar & Co., 1025 S. State St.

Simonds & Co., G. L., 230 S. La Salle St.

Vulcan Fuel Economy Co., 230 S. La Salle St.

Mich., Detroit

Precision Instrument Co., 114 Beaumont Ave.

Mo., St. Louis

Defender Automatic Regulator Co., 506 Oriol Bldg.

N. Y., Buffalo

Pierce Co., William B., 45 N. Division St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

Greiner Co., The Emil, 55 Fulton St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Gas Burner Rings*England, Deepfields, nr. Bilston, Staffs*

Cannon Iron Foundries, Ltd.

Gas Burning Equipment (*see Gas Plant Machinery*)**Gas Cleaning Plants***Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co

N. Y., New York City

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Pa., Pittsburgh

Coal & Coke By-Products Co., 421 Wood St.

Gas Collectors*Mich., Detroit*

Precision Instrument Co., Fort and Wayne Sts

Gas Container Testing Machines*N. J., Aldena*

Watson-Stillman Co., The

Gas Engines (*see Engines, Gas*)**Gas Filtering Installations***N. Y., New York City*

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Gas Holders (*see Tanks, Steel*)

Gas Lighting Accessories*Conn., Meriden*

Bradley & Hubbard Mfg. Co.

Mich., Detroit

Detroit Heating & Lighting Co.

*N. Y., Gloucester*Tirrill Gas Machine Lighting Co., 103
Park Ave.

Welsbach Co.

Western Electric Co., 463 West St.

Gas Machines*Mich., Detroit*

Detroit Heating & Lighting Co.

*N. Y., New York City*Tirrill Gas Machine Lighting Co., 103
Park Ave.**Gas Machines, Acetylene***Md., Baltimore*Milburn Co., Alexander, 1420-28 W.
Baltimore St.**Gas Mantle Dips***N. Y., New York City*Du Pont Chemical Works, 120 Broad-
way**Gas Masks***Ill., Chicago**Elmer, H. N., 53 W. Jackson Blvd.
Life Saving Device Co., 564 W. Monroe
St.*N. Y., Elmira*American La-France Fire Engine Co.,
Inc.*N. Y., New York City*National Resuscitating Apparatus Co.,
Inc., 39 E. 19th St.**Gas Plant Machinery***Ill., Chicago*

Schaar & Co., 1025 S. State St.

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Mich., Detroit

Detroit Heating & Lighting Co.

Mich., Muskegon

U. S. Gas Machine & Pattern Co.

N. J., Newark

Isbell-Porter Co.

*N. Y., Brooklyn*Improved Appliance Co., 450 Kent
Ave.*N. Y., New York City*Akerlund & Semmes Inc., 17 Battery
Pl.

American Gas Furnace Co., 24 John St.

Selas Co., 521 W. 23d St.

Tirrill Gas Machine Lighting Co., 103
Park Ave.*Ohio, Cleveland*

Gas Machinery Co.

*Pa., Philadelphia*United Gas Improvement Co., Broad
and Arch Sts.

Wood & Co., D. R., 400 Chestnut St.

Gas Plants, By-Product*Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Pa., Pittsburgh

Koppers Co., H.

Gas Plants, City*Mich., Detroit*Steele Engineering Co., Woodward
Ave**Gas Plants, Producer (see also Pro-
ducers)***Mich., Detroit*Steele Engineering Co., Woodward
Ave*N. Y., New York City*Akerlund & Semmes, Inc., 17 Battery
Pl.**Gas Producers***Mich., Detroit*

Detroit Heating & Lighting Co.

*N. Y., New York City*Akerlund & Semmes, Inc., 17 Battery
Pl.De La Vergne Machine Co., 1123 E.
138th St.

Gerdes & Co., Inc., 30 Church St.

Tirrill Gas Machine Lighting Co., 103
Park Ave.Worthington Pump & Machinery
Corp., 115 Broadway*N. Y., Syracuse*Syracuse Industrial Gas Co., 206
McCarthy Bldg.*Ohio, Dayton*

Smith Gas Engineering Co.

Ohio, Lexington

Smith Gas Engineering Co.

Ohio, Mt. Vernon

Chapman Engineering Co.

*Pa., Philadelphia*Coal & Coke By-Products Co., 421
Wood St.

Otto Gas Engine Works

Wood & Co., R. D., 400 Chesnut St.

Pa., East Pittsburgh

Westinghouse Electric Mfg. Co.

*Pa., Pittsburgh*Hagan Co., George J., 401 People's
Bank Bldg.Marshal Foundry Co., 28th and Rail-
road Aves.

Gas Producers, Fuel

N. Y., Syracuse
Syracuse Industrial Gas Co., 206
McCarthy Bldg.

Gas Purifying Material

N. Y., New York City
Connelly Iron Sponge & Governor Co.,
227 Fulton St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Wied-
ner Bldg.

Gas Scrubbers (*see Scrubbers, Gas*)**Gas Tanks** (*see Tanks, Steel*)**Gas Washing Equipment**

Mass., Boston
Spray Engineering Co., 93 Federal St

Gaskets, Acid Proof

N. J., Brunswick
Goetze Gasket & Packing Co.
N. Y., New York City
Sarco Co., Inc., 235 Broadway
Schwenker, Inc., W. M., 340 E. 92d St.
U. S. Indestructible Gasket Co., 52
Church St.
U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Akron Metallic Gasket Co.

Pa., Philadelphia

Quaker City Rubber Co., 629 Market
St.

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Gaskets, Alloy

N. Y., New York City
U. S. Indestructible Gasket Co., 50
Church St.

Gaskets, Ammonia

Ill., Chicago

Guillott Metal Gasket & Supply Co., 24
S. Clinton St.

Ohio, Akron

Akron Metallic Gasket Co.

Pa., Philadelphia

Quaker City Rubber Co.

Gaskets, Asbestos

N. Y., New York City
Johns-Manville Co., H. W., 296 Madi-
son Ave.

Ohio, Cincinnati

Cincinnati Gasket & Packing Co.,
1546-1548 Elm St.

Ohio, Lockland

Cavey Mfg. Co., Philip

Pa., Ambler

Keasbey & Mattison Co.

Pa., Franklin

Franklin Mfg. Co.

Pa., Philadelphia

Quaker City Rubber Co.

Gaskets, Copper

Ill., Chicago

Guillott Metal Gasket & Supply Co.,
24 S. Clinton St.

Mich., Detroit

McCord Mfg. Co., 2587 E. Grand Blvd.

N. J., New Brunswick

Goetze Gasket & Packing Co.

N. Y., New York City

Hungerford Brass & Copper Co., U. T.,
84 Lafayette St.

Sarco Co., Inc., 235 Broadway

Gaskets, Copper, Corrugated

Ill., Chicago

Guillott Metal Gasket & Supply Co.,
24 S. Clinton St.

N. Y., New York City

U. S. Mineral Wool Co., 280 Madison
Ave.

Gaskets, Devo

N. J., New Brunswick

Goetze Gasket & Packing Co.

Gaskets, Lead

Ill., Chicago

Guillott Metal Gasket & Supply Co.,
24 S. Clinton St.

N. Y., New York City

Rebele, L. J., 50 Church St

United Lead Co., 111 Broadway

U. S. Indestructible Gasket Co., 50
Church St

Ohio, Akron

Akron Metallic Gasket Co., 152 N.
Union St.

Gaskets, Lead Alloys

N. Y., New York City

Rebele, L. J., 50 Church St.

Gaskets, Leather

Mass., Worcester

Graton & Knight Mfg. Co.

N. Y., New York City

Schieren Co., Chas. A., 30-38 Ferry St.

Gaskets, Metal, Various*Ill., Chicago*Guillott Metal Gasket & Supply Co.,
24 S. Clinton St.*N. J., New Brunswick*

Goetze Gasket & Packing Co.

N. Y., New York City

Sarco Co., Inc., 235 Broadway

*Ohio, Akron*Akron Metallic Gasket Co., 152 N.
Union St.*Ohio, Cincinnati*Cincinnati Gasket & Packing Co.,
1546-48 Elm St.**Gaskets, Oil Proof** (*see Gaskets,
Rubber*)**Gaskets, Rubber***Ill., Chicago*

Crane Co., 836 S. Michigan Ave.

*Mass., Boston*Boston Belting Co., 84 Linden Park St.
Knowlton Rubber Co., Geo. W., 60
Pearl St.*N. Y., New York City*

Abbé, Paul O., 30 Broad St.

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

*Ohio, Cincinnati*Cincinnati Gasket & Packing Co.,
1546-48 Elm St.*Ohio, Cleveland*

Mechanical Rubber Co.

*Pa., Philadelphia*Quaker City Rubber Co., 629 Market
St.**Gaskets, Sheet Packings (As-
bestos, Fibre, Paper)***N. Y., New York City*

*Rebele, L. J., 50 Church St

Gaskets, Tubing*N. Y., New York City*

Jenkins Brothers, 80 White St.

Gaskets, Vulcanized Fibre*Del., Wilmington*

American Vulcanized Fibre Co.

**Gaskets and Washers, Wood
Asbestos***N. Y., New York City*U. S. Indestructible Gasket Co., 50
Church St.**Gates, Bin***Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop St.**Gates, Blast***Colo., Denver*

Colorado Iron Works Co.

Gates, Discharge*Colo., Denver*

Colorado Iron Works Co.

Gauge Glasses*N. J., Vineland*Doerr Glass Co., Peach St. and Boule-
vard**Gauge Rods***Ill., Chicago*

Redlich Mfg. Co., 637 W. Oak St.

Gauge Testers*Mass., Boston*American Steam Gauge & Valve Mfg.
Co.

Ashton Valve Co., 271 Franklin St.

Mass., Foxboro

Foxboro Co.

*N. Y., Brooklyn*Schaeffer & Hudenberg Mfg. Co.,
Berry and S. 5th Sts.*N. Y., New York City*

Tagliabue Mfg. Co.

Pa., Philadelphia

Lonergan Co., J. E., 211-15 Race St.

Quimby Engineering Co., 915 Ridge
Ave.**Gauges, Altitude***Mass., Foxboro*

Foxboro Co., Inc.

N. Y., New York City

U. S. Gauge Co., 67 Wall St.

Gauges Ammonia*Conn., Hartford*

Pratt & Cady Co., Inc.

Conn., Waterbury

Bristol Co.

*Mass., Boston*American Steam Gauge & Valve Mfg.
Co.

Ashton Valve Co., 271 Franklin St.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., New York City

U. S. Gauge Co., 67 Wall St.

N. Y., Rochester

Taylor Instrument Co.

Pa., Philadelphia

Lonergan Co., J. E., 211-215 Race St.

Gauges, Automatic Safety*N. Y., Watertown*Watertown Specialty Co., 112 E.
Moulton St.

Gauges, Compound

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Differential

Ill., Chicago
Sargeant Steam Meter Co., 2835 Armistage Ave.

Mass., Foxboro
Foxboro Co., Inc.

Mass., Waterbury
Bristol Co.

Mich., Detroit
Precision Instrument Co.

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

N. Y., New York City
Connelly Iron Sponge & Governor Co.,
227 Fulton St.

Gauges, Draft

Conn., Waterbury
Bristol Co.

Mass., Boston
Bailey Meter Co., 141 Milk St.

Mass., Foxboro
Foxboro Co., Inc.

Mich., Detroit
Precision Instrument Co., Fort and
Wayne Sts

Mo., St. Louis
Defender Automatic Regulator Co.,
506 Oriol Bldg.

N. Y., Brooklyn
Schaeffer & Budenberg Mfg Co.,
Berry and S. Fifth Sts
Tagliabue Mfg Co., C. J., 18 33d
St

N. Y., New York City
Uehling Instrument Co., Empire Bldg.

N. Y., Rochester
Taylor Instrument Cos.

Pa., Philadelphia
Brown Instrument Co.

Gauges, Electric

Conn., Waterbury
Bristol Co.

N. Y., Schenectady
General Electric Co.

Gauges, Gas (see Gauges, Test)**Gauges, Gas, High Pressure**

N. J., Newark
International Oxygen Co., 796 Freling-
huysen Ave

Gauges, Hydraulic

Mass., Foxboro
Foxboro Co., Inc.

Mich., Detroit
Precision Instrument Co.

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

N. Y., New York City
American Meter Co., 559 W. 47th St.

U. S. Gauge Co., 67 Wall St.

N. Y., Rochester
Taylor Instrument Cos.

Gauges, Indicating

Conn., Waterbury
Bristol Co.

Mass., Boston
American Steam Gauge & Valve Mfg.
Co.

Mass., Foxboro
Foxboro Co., Inc.

Mich., Detroit
Precision Instrument Co., Fort and
Wayne Sts

N. Y., New York City
Palo Co., 90-92 Maiden Lane
U. S. Gauge Co., 67 Wall St.

Gauges, Mercury

Mass., Foxboro
Foxboro Co., Inc.

Mich., Detroit
Precision Instrument Co.

N. Y., Brooklyn
Schaeffer & Budenberg Mfg Co.,
Berry and S. 5th Sts

Pa., Philadelphia
Brown Instrument Co.

Gauges, Oil

N. Y., Buffalo
Sherwood Mfg Co., 1710 Elmwood
Ave

Gauges, Oil Pressure

N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Pressure

Conn., Waterbury
Bristol Co.

Iowa, Marshalltown
Fisher Governor Co.

Mass., Boston
American Steam Gauge & Valve Mfg.
Co., 208 Camden St.

Ashton Valve Co., 271 Franklin St.

Mass., Foxboro
Foxboro Co., Inc.

Mich., Detroit
Precision Instrument Co., Fort and
Wayne Sts.

Gauges, Pressure—cont.

- N. Y., Brooklyn*
 Schaeffer & Budenberg Mfg., Berry
 and S. 5th Sts.
 Tagliabue Mfg. Co., C. J., 18 33d St.
- N. Y., New York City*
 Connelly Iron Sponge & Governor Co.,
 227 Fulton St.
 Palo Co., 90-92 Maiden Lane
 U. S. Gauge Co., 67 Wall St.
 Uehling Instrument Co., Empire Bldg.
- Pa., Philadelphia*
 Brown Instrument Co.
 Lonergan Co., J. E., 211-215 Race St.
 Quimby Engineering Co., 450 N. 10th
 St.

Gauges, Pyrometer

- Mass., Foxboro*
 Foxboro Co., Inc.
- N. Y., New York City*
 U. S. Gauge Co., 67 Wall St.

Gauges, Rain

- N. Y., Brooklyn*
 Tagliabue Mfg. Co., C. J., 18 33d St.
- N. Y., Rochester*
 Taylor Instrument Cos.

Gauges, Recording

- Conn., Waterbury*
 Bristol Co.
- Mass., Boston*
 American Steam Gauge & Valve Mfg.
 Co.
- Mass., Foxboro*
 Foxboro Co., Inc.
- Mich., Detroit*
 Precision Instrument Co., Fort and
 Wayne Sts.
- N. Y., Brooklyn*
 Schaeffer & Budenberg Mfg. Co., Berry
 and S. 5th Sts.
 Tagliabue Mfg. Co., C. J., 18 33d St.
- N. Y., New York City*
 Palo Co., 90-92 Maiden Lane
 U. S. Gauge Co., 67 Wall St.
 Uehling Instrument Co., Empire Bldg.
- Pa., Philadelphia*
 Brown Instrument Co.

Gauges, Steam

- Conn., Waterbury*
 Bristol Co.
- Mass., Boston*
 American Steam Gauge & Valve Mfg.
 Co., 208 Camden St.
 Ashton Valve Co., 271 Franklin St.
 Crosby Steam Gauge & Valve Co., 38
 Central St.
- Mass., Foxboro*
 Foxboro Co., Inc.

- N. Y., Brooklyn*
 Tagliabue Mfg. Co., J. C., 18 33d St.
- N. Y., New York City*
 United States Gauge Co., 67 Wall St.
- N. Y., Rochester*
 Taylor Instrument Cos.
- Ohio, Wadsworth*
 Ohio Injector Co.
- Pa., Philadelphia*
 Belfield Co., H., 435 N. Broad St.
 Brown Instrument Co.

Gauges, Test

- Mass., Boston*
 American Steam Gauge & Valve Co.
- Mass., Fitchburg*
 Bristol Co., Inc.
- N. Y., Brooklyn*
 Tagliabue Mfg. Co., C. J., 18 33d St.
- N. Y., New York City*
 U. S. Gauge Co., 67 Wall St.

Gauges, Tire

- Mass., Chicopee Falls*
 Fisk Rubber Co.
- Mass., Foxboro*
 Foxboro Co., Inc.
- N. Y., New York City*
 U. S. Gauge Co., 67 Wall St.

Gauges, "U"

- Mich., Detroit*
 Precision Instrument Co., Fort and
 Wayne Sts.
- N. Y., Brooklyn*
 Schaeffer & Budenberg Mfg. Co.,
 Berry and S. 5th Sts.

Gauges, Vacuum

- Conn., Waterbury*
 Bristol Co.
- Mass., Boston*
 American Steam Gauge & Valve Co.
 Crosby Steam Gauge & Valve Co., 40
 Central St.
- Mich., Detroit*
 Precision Instrument Co.
- N. Y., Brooklyn*
 Schaeffer & Budenberg Mfg. Co.
 Berry and S. 5th St.
 Tagliabue Mfg. Co., C. J., 18 33d
 St.
- N. Y., New York City*
 Uehling Instrument Co., Empire Bldg.
 U. S. Gauge Co., 67 Wall St.
- Pa., Philadelphia*
 Brown Instrument Co.
 Quimby Engineering Co., 450 E. 10th
 St.

Gauges, Water*Ill., Chicago*

Crane Co., 836 S. Michigan Ave.

Mass., Foxboro

Foxboro Co., Inc.

Mich., Detroit

American Injector Co.

Detroit Lubricator Co.

N. Y., New York City

Jenkins Bros., 80 White St.

Ohio, Cincinnati

Powell Co., The Wm., 2521 Spring Grove Ave.

Gauges, Water, High Pressure*Pa., Philadelphia*

Loneragan Co., J. E., 211 Race St.

Gauze, Chemists'*Mich., Detroit*

Hoskins Mfg. Co., 453-471 Lawton Ave.

Gauze, Plain*N. J., New Brunswick*

Johnson & Johnson

N. Y., New York City

Bauer & Black, 104 E. 25th St.

Gauze, Platinum Wire*N. J., Newark*

American Platinum Works, 225 N. J. R. R. Ave.

Gearing, Flexible*N. Y., Ithaca*

Morse Chain Co.

Gears, Bronze*Del., Wilmington*

Walker & Elliott, Inc.

N. Y., Niagara Falls

Titanium Bronze Co.

Pa., Pittsburgh

Vanadium Metal Co., Vanadium Bldg.

Gears, Double Helical Speed Reducing*N. J., Trenton*

De Laval Steam Turbine Co.

Gears, Fibre*Pa., Bridgeport*

Diamond State Fibre Co.

Generating Sets*N. Y., Schenectady*

General Electric Co.

Generator Cooling Systems (see
Cooling Systems)**Generators, A. C. Engine and Waterwheel Type***Pa., East Pittsburgh*

Westinghouse Electric & Mfg. Co.

Generators, Acetylene*Ill., Chicago*

Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Oxweld Acetylene Co., 36th St. and Jasper Pl.

Ia., Ottumwa

Ottumwa-Moline Engine & Pump Co., 802-22 Madison Ave.

Md., Baltimore

Milburn Co., Alexander, 1420-26 W. Baltimore St.

N. Y., New York City

Air Reduction Sales Co., 120 Broadway

Welding Supply Co., 132 Nassau St.

Ohio, Cincinnati

Macleod Co., The, 2232-36 Bogen St.

Pa., Philadelphia

Messer Mfg. Co., 121 N. 7th St.

Generators, Chlorine*Mass., Boston*

Eastern Clay Goods Co., 141 Milk St.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Generators, D. C. Engine Type*Pa., East Pittsburgh*

Westinghouse Electric & Mfg. Co.

Generators, Electric*Conn., Hartford*

Terry Steam Turbine Co.

Ill., Chicago

Fairbanks-Morse & Co.

Mass., Boston

Sturtevant Co., B. F., Hyde Park

Minn., Minneapolis

Electric Machinery Co.

N. J., Ampere

Crocker-Wheeler Co.

N. Y., New York City

Machinery Utilities Co., Inc., 501 5th Ave.

Sprague Electric Works, 527 W. 34th St.

Western Electric Co., Inc., 195 Broadway

N. Y., Schenectady

General Electric Co.

Generators, Electric—cont.*Ohio, Cincinnati*

Jantz & Leist Electric Co.

Ohio, Springfield

Robbins & Meyers Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Ridgway

Ridgway Dynamo & Engine Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Generators, Gas (*see Producers, Gas*)**Generators, Geared, Turbine-driven, Direct Current***N. J., Trenton*

De Laval Steam Turbine Co.

Generators, Girvin High Tension Direct Current*N. Y., New York City*

Research Corporation, 63 Wall St.

Generators, Hydrogen*Ill., Chicago*

Burdett Mfg. Co., St. Johns Ct. and Fulton St.

N. Y., New York City

Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

International Oxygen Co., 115 Broadway

Generators, Hydrogen, Electrolytic*N. Y., Brooklyn*

Johnson Co., John

N. Y., New York City

Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

International Oxygen Co., 115 Broadway

Generators, Low Voltage*N. Y., Schenectady*

General Electric Co.

Ohio, Cincinnati

Jantz & Leist Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Generators, Motor*N. Y., Schenectady*

General Electric Co.

Ohio, Cincinnati

Jantz & Leitz Electric Co.

Ohio, Cleveland

Lincoln Electric Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Generators, Oxygen*Ill., Chicago*

Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Md., Baltimore

Milburn Co., Alexander, 1420-28 W. Baltimore St.

N. J., Harrison

Shriver & Co., T., 842 Hamilton St.

N. Y., Brooklyn

Johnson Co., John

N. Y., New York City

Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

International Oxygen Co., 115 Broadway

Ohio, Cincinnati

Macleod Co., The, 2232-36 Bogen St.

Generators, Oxygen, Electrolytic*N. Y., New York City*

Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

International Oxygen Co., 115 Broadway

Generators, Steam*N. Y., Brooklyn*

Improved Appliance Co., 413-419 Kent Ave.

Generators, Steam Acetylene*Md., Baltimore*

Milburn Co., Alexander, 1420-28 W. Baltimore St.

Generators, Turbo, Electric*Conn., Hartford*

Terry Steam Turbine Co.

N. J., Trenton

De Laval Steam Turbine Co.

N. Y., Schenectady

General Electric Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Generators, Thermalene*Ill., Chicago Heights*

Thermalene Co., 17th St. and Lowe Ave.

Generators, Wooden (*see Tanks, Wooden*)**Girders, Acid Proof, Stoneware***N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Glass Blowing*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

Laboratory Materia's Co. 640 E. 71st St.

N. J., Millville

International Glass Co.

N. Y., Corning

Corning Glass Works

N. Y., New York City

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Pa., Philadelphia

Whitall-Tatum Co.

Pa., Pittsburgh

Macbeth Evans Glass Co.

*Scientific Materials Co., 719 Forbes St.

Pa., Rochester

Fry Glass Co., H. C.

Glass Blowing Machinery*N. J., Bridgeton*

Cox & Sons Co.

Glass Bottles (*see Glass, Chemists, Laboratory*)**Glass Bulbs***N. Y., Corning*

Corning Glass Works

N. J., Millville

International Glass Co.

Ohio, Cleveland

Euclid Glass Division National Lamp Works of General Electric Co.

Pa., Philadelphia

Whitall-Tatum Co.

Pa., Pittsburgh

Macbeth Evans Glass Co.

Glass Cleaning Apparatus*Pa., Pittsburgh*

Coal & Coke By-Products Co., 421 Wood St.

Glass Containers*N. J., Bridgeton*

Cumberland Glass Mfg. Co.

Glass Enameled Apparatus*N. Y., Rochester*

Pfaudler Co., The

Ohio, Elyria

Elyria Enameled Products Co.

Glass, Ground*N. Y., New York City*

Cooper & Co., Charles, 194 Worth St.

Glass, Laboratory*Cal., San Francisco*

Braun-Knecht-Heimann Co.

Colo., Denver

Denver Fire Clay Co.

Mine & Smelter Supply Co.

England, Birmingham

Belchers (Stanley) & Mason, Ltd., Church St.

Ill., Alton

Illinois Bottle Co.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

Kimble-Durand Glass Co.

Laboratory Materials Co., 640 E. 71st St.

Ind., Alexandria

Lippincott Glass Co.

Mass., Boston

International Equipment Co., 352 Western Ave.

Mass., Somerville

Union Glass Co.

Mo., St. Louis

*Heil Chemical Co., Henry, 216 S. 4th St.

N. J., Millville

International Glass Co.

Wheaton Co., T. C.

N. J., Newark

Hanovia Chemical & Mfg. Co.

Kimble-Durand Glass Co.

N. J., Vineland

Docr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

N. Y., New York City

American Scientific Instrument Co., Inc., 50-56 John St.

*Eimer & Amend, 3d Ave., 18th to 19th St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Mine & Smelter Supply Co., 42 Broadway

Scientific Utilities Co. Inc., 84 E. 10th St.

Sidco Co. of America, 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Wagner Glass Works, 965 E. 132d St.

N. Y., Rochester

Bausch & Lomb Optical Co.

Will Corporation

Ohio, Columbus

Laboratory Supply Co., 41 E. Chestnut St.

Pa., Carbondale

Carbondale Instrument Co.

Pa., Philadelphia

Caloris Co., 2110 Alleghany Ave.

*Thomas Co., Arthur H., 238 Washington Sq.

Whitall-Tatum Co., 410 Race St.

Williams-Brown & Earle, Inc., 918 Chestnut St.

Pa., Pittsburgh

Macbeth Evans Glass Co.

Scientific Materials Co., 717 Forbes St.

Pa., Rochester

Fry Glass Co., H. C.

Glass, Optical*Mass., Southbridge*

American Optical Co.

N. Y., Corning

Corning Glass Works

N. Y., Rochester

Bausch & Lomb Optical Co.

Glass Plants*Ill., Aurora*

Stephens-Adamson Mfg. Co.

Glass, Prismatic*N. Y., New York City*

Holophane Glass Co., Inc., 340 Madison Ave.

Glass Tubes and Cylinders (*see**Glass, Chemists, Laboratory.*)**Glass Tubing** (*see Glass, Chemists' Laboratory*)**Glass Wool***Ill., Chicago*

Laboratory Materials Co., 640 E. 71st St.

N. Y., New York City

Reeve, Angel & Co., Inc., H., 120 Liberty St.

Glasses, Exhaust*Ohio, Cambridge*

Cambridge Glass Co.

Glasses, Safety*Pa., Reading*

Hettinger, E. L., 2d and Washington Sts.

Glassine Paper*Pa., Bridgeport*

Diamond State Fibre Co.

Glassware (*see Glass, Laboratory*)**Glassware, Chemical** (*see also**Glass, Chemists', Laboratory*)*Ill., Alton*

Illinois Bottle Co.

*Ill., Chicago**Central Scientific Co., 460 E. Ohio St.
Chicago Glass Products Co., 2300 Warren Ave.*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.

Laboratory Materials Co., 640 E. 71st St.

*Physicians Laboratory Supply Co.,
119-121 N. Wabash Ave.

*Schaar & Co., 1025 S. State St.

Welch Mfg. Co., W. M., 1516 Orleans St.

Mass., Boston

International Equipment Co., 352 Western Ave.

*Knott Apparatus Co., L. E., Cambridge "A" Station

Mich., Detroit

Precision Instrument Co., Fort and Wayne Sts.

N. J., Newark

Hanovia Chemical & Mfg. Co.

N. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

N. Y., New York City

Doniger & Co., 164 5th Ave.

*Eimer & Amend, 205-211 3d Ave.

Greiner Co., The Emil, 55 Fulton St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Maris & Co., J. M., 40 Barclay St.

Watters Laboratories, Cons., 55 5th Ave.

Pa., Carbondale

Griebel Instrument Co.

Pa., Philadelphia

Whitall-Tatum Co., 410 Race St.

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

Macbeth Evans Glass Co.

*Scientific Materials Co., 711-719 Forbes St.

Glassware, Graduated*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

Kimble-Durand Glass Co., 402 W. Randolph St.

Mich., Ann Arbor

*Eberbach & Sons Co.

N. Y., New York City

Eimer & Amend, 205-211 3d Ave.

Greiner Co., Emil, 55 Fulton St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Glassware, Laboratory (*see Glassware, Chemical*)

Glassware, Scientific (*see also Glass, Chemists, Laboratory, Glassware, Chemical*)

Gloves, Acid

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.

Gloves, Asbestos

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Gloves, Rubber, Acid Proof

Mass., Andover
Tyler Rubber Co.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Akron
Goodrich Co., B. F.
Miller Rubber Co.
Star Rubber Co.
Ohio, Ashland
Faultless Rubber Co.
R. I., Providence
Davol Rubber Co.

Gloves, Sand Blast

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Cincinnati
MacLeod Co., 2232-2236 Bogen St.

Glue Plants

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.

Gluing Machines

Ohio, Cleveland
Union Engineering Co., 1616 Columbus Rd.

Glycerine Machinery

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Devine Co., J. P.

Glycerine Recovery Apparatus

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.

Glycerine Refining Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

N. J.; Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Brooklyn
Johnson Co., John
N. Y., Buffalo
Devine Co., J. P.

Goggles, Gas Tight

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Goggles, Industrial

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Hayward & Co., S. F., 250 W. 54th St.

Goggles, Rubber (Fume Proof)

Ind., South Bend
Cover, H. S., P. O. Box 404

Gooch Filters (*see Filters, Gooch*)

Governors, Air

Ill., Quincy
Gardner Governor Co.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Governors, Feed Water

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

Governors, Gas

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mich., Detroit
Steele Engineering Co., Woodward Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Ohio, Cleveland
Gas Machinery Co.

Governors, Pressure*N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18 33d St.

*N. Y., New York City*Connelly Iron Sponge & Governor Co.,
227 Fulton St.*Pa., Erie*

Jarecki Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Governors, Pump*N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18 33d St.

*N. Y., New York City*Worthington Pump & Machinery
Corp., 113 Broadway*N. Y., Schenectady*

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric Mfg. Co.

Pa., Philadelphia

Houghton & Co., E. F., 238 W. Somerset St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Graders, Ditches*Minn., Mankato*

Mayer Bros. Co., 198 Rock St.

Graduate Blanks*Ohio, Cambridge*

Cambridge Glass Co.

Graduate Engraved*Ohio, Cambridge*

Cambridge Glass Co.

Graduate Pressed Lines*Ohio, Cambridge*

Cambridge Glass Co.

Graduates*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., New York City

Bernard & Co., F. J., 70 Murray St.

Graduates, Conical (*see Cylinders, Glass, Graduates*)**Graduates, Glass***Pa., Philadelphia*

Whitall-Tatum Co., 410 Race St.

Grain Cleaning Machinery*Ill., Moline*

Barnard & Sons Mfg. Co.

*Wis., Milwaukee*American Machinery & Construction
Co.**Grain Handling Plants***N. Y., New York City*Holly Pneumatic Systems, Inc., 145
W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Ohio, Columbus

Jeffrey Mfg. Co.

Granulating Machinery*Ill., Chicago*

Stroud & Co., E. H., 928 Fullerton Ave.

Mich., Saginaw

Werner & Pfeiderer Co., Inc.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Pa., Philadelphia

Stokes Machine Co., F. J.

Graphite, Flake and Powdered*Cal., San Francisco*

*Dill-Crossett, Inc.

Mich., Saginaw

U. S. Graphite Co.

N. J., Asbury, Warren County

Asbury Graphite Mills

N. J., Jersey City

Dixon Crucible Co., Joseph

N. Y., Niagara Falls

Acheson Graphite Co.

International Acheson Graphite Co.

Pa., Pittsburgh

McCullough-Dalzell Crucible Co.

Graphite Products (*see also Graphite, Flake and Powdered*)*N. J., Jersey City*

Dixon Crucible Co., Joseph

Grates, Dumping*Md., Baltimore*

Bartlett-Hayward Co.

N. Y., New York City

Washburn & Granger, 50 Church St.

Pa., Chester

Wetherill & Bro., Robert

Pa., Fullerton

Fuller-Lehigh Co.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Keeler Co., E.

Valley Iron Works

Grates, Shaking (*see Grates, Dumping*)**Grates, Stoneware***Mass., Boston*

Eastern Clay Goods Co., 141 Milk St.

Gravimeters*Mich., Detroit*

Precision Instrument Co., Fort and Wayne Sts.

N. J., Newark

Thermo Electric Instrument Co.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

Grids, Tower, Stoneware*N. Y., New York City*

Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Grinders, Cylindrical*Ind., Indianapolis*

Ott Grinder Co., 217-223 W. Tenth St.

Grinders, Dye*Ill., Chicago*

Kaestner & Hecht, Harrison and Throop Sts.

Stroud & Co., E. H., 928 Fullerton Ave.

Mass., Boston

Plouff Co., 1558 River St., Hyde Park

Mich., Saginaw

Werner & Pfeleiderer, Inc.

N. Y., Buffalo

Abbé, Paul O., 30 Church St.

Abbé Engineering Co., 220 Broadway Sowers Mfg. Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Cincinnati

Day Co., J. H.

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Pa., Philadelphia

Pennsylvania Crusher Co., Stephen Girard Bldg.

Philadelphia Textile Machinery Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Grinders, Electric*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

Mass., Worcester

Forbes & Myers

N. Y., New York City

Ingersoll-Rand Co., 113 Broadway

Niles-Bement-Pond Co., 111 Broadway

N. Y., Schenectady

General Electric Co.

Grinders, Internal*Ind., Indianapolis*

Ott Grinder Co., 217-223 W. Tenth St.

Grinders, Laboratory*Cal., San Francisco*

*Braun-Knecht-Heimann Co., 584 Mission St.

Ill., Chicago

Stroud Co., E. H., 928 Fullerton Ave.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

N. Y., New York City

*Eimer & Amend, 3d Ave., 18th to 19th St.

Palo Co., 90-92 Maiden Lane

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Grinders, Ore*Cal., San Francisco*

Braun-Knecht-Heimann Co., 584 Mission St.

Colo., Denver

Colorado Iron Works Co.

Ill., Chicago

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

N. Y., Buffalo

Devine Co., J. P., 1366 Clinton St.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

*Eimer & Amend, 3d Ave., 18th to 19th St.

Mine & Smelter Supply Co., 42 Broadway

Ohio, Cincinnati

Day Co., J. H.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

Stokes Machine Co., F. J.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Grinders, Paint (*see Grinders, Dye*)**Grinders, Plain***Ind., Indianapolis*

Ott Grinder Co., 217-223 W. Tenth St.

Grinders, Sample Ore (*see also Grinders, Ore*)*Colo., Denver*

Colorado Iron Works Co.

Mass., Boston

Sturtevant Mill Co.

N. Y., New York City

Abbé, Paul O., 30 Church St.

Grinders, Universal*Ind., Indianapolis*

Ott Grinder Co., 217-223 W. Tenth St.

Grinders, Wood Pulp*Ill., Chicago*

Link-Belt Co., W. 39th St. and Stewart Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mich., Saginaw

Werner & Pfeiderer, Inc.

N. Y., Carthage

Carthage Machine Co.

N. Y., New York City

Beach-Russ Co., 220 Broadway

Grinding Machinery*Cal., Los Angeles*

Lane Mill & Machinery Co.

Cal., San Francisco

Braun-Knecht-Heimann Co., 584 Mission St.

Ill., Chicago

Chicago Pneumatic Tool Co., Fisher Bldg.

Kaestner & Throop, Harrison and Throop Sts.

Link-Belt Co., W. 39th St. and Stewart Ave.

Raymond Bros. Impact Pulverizer Co. Stroud & Co., E. H., 928 Fullerton Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Ind., Indianapolis

Atkins & Co., E. C.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

Mass., Fitchburg

Universal Grinding Machine Co.

Mass., Greenfield

Greenfield Tape & Die Corporation

Mass., Worcester

Forbes & Myers

Mich., Saginaw

Werner & Pfeiderer, Inc.

N. J., Trenton

Crossley Machine Co.

N. Y., Albany

Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.

N. Y., New York City

Abbé, Paul O., 30 Broad St.

Abbe Engineering Co., 220 Broadway Beach-Russ Co., 220 Broadway

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Hardinge Conical Mill Co., 120 Broadway

Ingersoll-Rand Co., 11 Broadway

Mine & Smelter Supply Co., 42 Broadway

Provost Engineering Corp., 220 Broadway

*Palo Co., 90-92 Maiden Lane

Niles-Bement-Pond Co., 111 Broadway

N. Y., Schenectady

General Electric Co.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

Stokes Machine Co., F. J.

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Wagonersboro

Lands Tool Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Grinding Pans (*see Pans, Grinding*)**Grinding Wheels** (*see Wheels, Grinding*)**Grizzlies***Colo., Denver*

Colorado Iron Works Co.

Guards, Column*Ohio, Lectoria*

Lectoria Boiler Co., Kunkel Bldg.

Guards, Machinery*Ill., Chicago*

Hig Electric Ventilating Co., 153-155 Whiting St.

Mich., Adrian

Page Steel & Wire Co.

Ohio, Cleveland

Tyler Co., W. S.

Ohio, Lectoria

Lectoria Boiler Co., Kunkel Bldg.

Guards, Propeller Fan*Ill., Chicago*

Hig Electric Ventilating Co.

Gum Apparatus*Mich., Saginaw*

Werner & Pfeiderer, Inc.

N. Y., Buffalo

Devine Co., J. P.

Gum Cleaning Apparatus*N. Y., Brooklyn*

Johnson Co., John, 37th St. and 2d Ave.

Guns, Blast, Cement and Concrete*Ohio, Cincinnati*

Macleod Co., The, 2232-36 Bogen St.

Haemacytometers*Ill., Chicago**Physicians Laboratory Supply Co.,
119 121 N. Wabash Ave*N. Y., Buffalo*

Spencer Lens Co., 442 Niagara St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Haemoglobinometers*Ill., Chicago**Physicians Laboratory Supply Co.,
119 121 N. Wabash Ave**Haemometers***Ill., Chicago**Physicians Laboratory Supply Co.,
119 121 N. Wabash Ave*N. Y., Buffalo*

Spencer Lens Co., 442 Niagara St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Hammers, Alloy*N. Y., New York City*U. S. Indestructible Gasket Co., 50
Church St.**Hammers, Babbitt***N. Y., New York City*

Rebele, L. J., 50 Church St

Hammers, Drop*N. Y., Buffalo*Buffalo Foundry & Machine Co., 26
Winchester St.*N. Y., New York City*

Niles-Bement-Pond Co., 111 Broadway

Ohio, Alliance

Morgan Engineering Co.

Hammers, Pile*Mich., Bay City*

Industrial Works

*N. Y., Buffalo*Buffalo Foundry & Machine Co., 26
Winchester Ave.**Hammers, Pneumatic***Ill., Chicago*Chicago Pneumatic Tool Co., Fisher
Bldg*Minn., Mankato*

Little Giant Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Hammers, Power*Minn., Mankato*

Little Giant Co., 198 Rock St

N. Y., Brooklyn

Bliss Co., E. W., 17 John St.

*N. Y., Buffalo*Buffalo Foundry & Machine Co., 26
Winchester Ave.*N. Y., New York City*

Niles-Bement-Pond Co., 111 Broadway

Ohio, Alliance

Morgan Engineering Co.

Hammers, Steam*N. Y., Buffalo*Buffalo Foundry & Machine Co., 26
Winchester Ave.*N. Y., New York City*

Niles-Bement-Pond Co., 111 Broadway

Ohio, Alliance

Morgan Engineering Co.

Hammers, Riveting, Clipping and Calking*Ill., Chicago*Chicago Pneumatic Tool Co., 343 S.
Dearborn Ave.*N. Y., New York City*

Ingersoll-Rand Co., 11 Broadway

Hardener, Floor*Mich., Detroit*Trus-Con Laboratories, Caniff Road
and G. T. R. R.**Hardening Treatment***N. J., Elizabeth*

American Metal Treatment Co.

Hardness Measuring Instruments (see also *Scleroscopes*)**Hardware, Laboratory** (see *Laboratory Apparatus and Equipment*)**Heads, Deep Well Power Pumping***Ill., Aurora*

American Well Works

Heat Exchange Apparatus*Conn., Hartford*

Whitlock Coil Pipe Co.

Heat Insulating Materials*Del., Wilmington*American Vulcanized Fibre Co., Equi-
table Bldg.*Ill., Chicago*Redmanol Chemical Products Co., 636
W. 22d St.*N. J., Bloomfield*

Condensite Co. of America

Heat Insulating Materials—cont.*N. Y., New York City*

American Hard Rubber Co., 9 Mercer St.

Celite Products Co., 11 Broadway

General Bakelite Co., 2 Rector St.

Johns-Manville Co., H. W., 41st St. and Madison Ave.

Ohio, Akron

Goodrich Co., B. F.

Ohio, Lockland

Cavey Co., Philip

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Heat Insulation Cases*Pa., Pittsburgh*

Crucible Steel Co. of America, 30th and Smallman Sts.

Heat Regulating Systems (see*Heating and Ventilating Systems)***Heat Transmission, Fluid***Mass., Boston*

*Parks-Cramer Co.

Heat Treating*Conn., Bridgeport*

Connecticut Metal Treating, 207 Knowlton Ave.

Conn., Danbury

Ball & Roller Bearing Co., Maple Ave.

Ind., Indianapolis

American Highspeed Chain Co., 401 S. Illinois Ave.

Mo., St. Louis

Laclede Steel Co

N. J., Elizabeth

American Metal Treatment Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Heat Veils*N. Y., New York City*

Hayward & Co., S. F., 250 W. 54th St.

Heaters, Air (see also *Heating and Ventilating Apparatus*)*Ill., Chicago*

Edison Electric Appliance Co., Inc

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave

N. Y., New York City

Western Electric Co., 195 Broadway

Worthington Pump & Machinery Corporation, 115 Broadway

N. Y., Schenectady

General Electric Co.

Pa., Sharon

Petroleum Iron Works Co.

Heaters, Asphalt*Mass., Boston*

Badger & Sons Co., R. E., 75 Pitts St.

N. J., Burlington

Stuart & Peterson Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Brooklyn

Hauck Mfg. Co., 101-113 Eleventh St.

N. Y., Long Island City

Stuebner Iron Works, G. L., Hancock St. and Vernon Ave.

Ohio, Cincinnati

Macleod Co., 2232-36 Bogen St.

Pa., Sharon

Petroleum Iron Works Co

Wis., Milwaukee

Pressed Steel Tank Co

Heaters, Closed Multi-pass*Pa., Philadelphia*

Kestner Evaporator Co., 18th St. and Allegheny Ave

Heaters, Electric*N. Y., Albany*

Consolidated Car Heating Co.

N. Y., New York City

Palo Co., 90 Maiden Lane

Western Electric Co., 195 Broadway

N. Y., Schenectady

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric Mfg. Co.

Heaters, Electric, Laboratory*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daguer & Co., A., 52-56 Kinzie St., W.

N. Y., New York City

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Heaters, Feed Water*Conn., New Haven*

National Pipe Bending Co., The, River and Lloyd Sts.

Ill., Kewanee

Kewanee Boiler Co

Whitlock Cor. Pipe Co

Mich., Saginaw

Wickes Boiler Co.

N. J., Camden

Webster & Co., Warren

N. J., East Carteret

Wheeler Condenser & Engineering Co.

Heaters, Feed Water—cont.

- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. Y., Brooklyn*
Improved Appliance Co., 415 Kent Ave.
- N. Y., New York City*
Griscom-Russell Co., 90 West St.
Worthington Pump & Machinery Corp., 113 Broadway
- Ohio, Dayton*
Platt Iron Works Co.
- Pa., Chester*
Wetherill & Co., Robert
- Pa., Jenkintown*
Hodges Water Still Co., Inc
- Pa., Philadelphia*
Harrison Safety Boiler Works

Heaters, Gravel

- Ohio, Cincinnati*
Macleod Co., The, 2232-36 Bogen St.

Heaters, Noiseless, Lead

- Pa., Philadelphia*
Schautte & Koerting Co., 12th and Thompson Sts

Heaters, Oil

- Mass., Boston*
Parks-Cramer Co
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
Otto Metal Goods Corporation, W. H., 101 St. Paul's Ave
- N. Y., Brooklyn*
Improved Appliance Co., 415 Kent Ave
- N. Y., Long Island City*
Anthony Co., 138 West Ave.
- Ohio, Cincinnati*
Macleod Co., 2232 Bogen St.

Heaters, Portable

- N. Y., Brooklyn*
Hauck Mfg. Co., 101 113 Eleventh St.

Heaters, Surface

- Ohio, Cincinnati*
Macleod Co., The, 2232-36 Bogen St.

Heaters, Tar (see Heaters, Asphalt)**Heaters, Tire**

- N. Y., Brooklyn*
Hauck Mfg. Co., 101 113 Eleventh St.

Heaters, Tubular

- Conn., Hartford*
Whitlock Coil Pipe Co.

Heaters, Water

- Ill., Chicago*
American Radiator Co.
- Mich., Detroit*
U. S. Radiator Corporation

- Mich., Muskegon*
Muskegon Boiler Works

- Mich., Saginaw*
Wickes Bros.
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. Y., Buffalo*
Rose Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
- N. Y., New York City*
Mott Iron Works, J. L., 118 5th Ave.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
- Pa., Philadelphia*
Harrison Safety Boiler Works, 17th and Alleghany Sts.
- Pa., Pittsburgh*
Scaife & Sons Co., Wm. B.

Heating Apparatus, Laboratory

- Ill., Chicago*
Daigger & Co., A., 52 56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
- N. Y., New York City*
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Heating Appliances, Electric

- N. J., Newark*
Electric Heating Apparatus Co., 123-125 Sussex Ave.
- N. Y., Schenectady*
General Electric Co

Heating and Ventilating Apparatus

- Ia., Marshalltown*
Dunham Co., C. A.
- Ill., Chicago*
Ilg Electric Ventilating Co., 131 Whiting St.
- Mass., Boston*
Gurney Heater Mfg. Co., 200 Franklin St.
Parks-Cramer Co
Sturtevant Co., B. F., Hyde Park
- Mich., Detroit*
American Blower Co.
- Mich., Kalamazoo*
Clara Fan Co
- N. J., Camden*
Webster & Co., Warren
- N. Y., Brooklyn*
Hauck Mfg. Co., 101 113 Eleventh St.
Improved Appliance Co., 413 419 Kent Ave
- N. Y., Buffalo*
Buffalo Forge Co., 490 Broadway
- N. Y., New York City*
Carnier Engineering Corporation, 39 Cortlandt St

Heating and Ventilating Apparatus—cont.*R. I., Providence*

General Fire Extinguisher Co.

Pa., Philadelphia

Braemer Air Conditioning Co., Lafayette Bldg.

Heating Devices*Ill., Chicago*

Chicago Surgical & Electrical Co., 314 W. Superior St.

*Physicians Laboratory Supply Co., 1234 Marshall Field Annex Bldg

Heating Machines*N. Y., New York City*

American Gas Furnace Co., 24 John St.

Heating Machines, Continuous*N. Y., New York City*

American Gas Furnace Co., 24 John St

Heating Systems*Mass., Boston*

*Parks-Cramer Co.

Mich., Kalamazoo

Clarage Fan Co.

N. Y., New York City

Carrier Engineering Corp., 39 Cortlandt St.

Heating Systems, High Temperatures*Mass., Boston*

Parks-Cramer Co

Helmets, Fume*Ill., Chicago*

Chicago Eye Shield Co., 2300 Warren Ave.

Life Saving Device Co., 564 W. Monroe St.

N. Y., Elmira

American-La France Fire Engine Co., Inc.

N. Y., New York City

Hayward & Co., S. F., 250 W. 54th St.

Ohio, Cincinnati

Macleod Co., The, 2232-36 Bogen St.

Helmets, Gas*Ill., Chicago*

Life Saving Device Co., 564 W. Monroe St.

N. Y., Elmira

American-La France Fire Engine Co., Inc.

Helmets, Smoke*Ill., Chicago*

*Elmer, H. N., 53 W. Jackson Blvd.

Life Saving Device Co., 564 W. Monroe St.

N. Y., Elmira

American-La France Fire Engine Co., Inc.

Hoists, Air*Ill., Aurora*

Barber-Greene Co.

Ill., Chicago

Chicago Pneumatic Tool Co., Fisher Bldg.

Ill., Harvey

Whiting Foundry Equipment Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

International Process Co., 5 Beekman St

Mine & Smelter Supply Co., 42 Broadway

Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Cincinnati

Macleod Co., 2232 Bogen St.

Ohio, Cleveland

Wellman-Seaver-Morgan Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg Co

Hoists, Electric*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

Link-Belt Co., W. 39th St. and Stewart Ave.

Mich., Detroit

Northern Engineering Works

N. Y., New York City

Otis Elevator Co., 26th St. and 11th Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

N. Y., New York City

Sprague Electric Works, 527-531 W. 34th St

Ohio, Columbus

Jeffrey Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co.

 HOLDERS, Bottle*Mass., Worcester*

National Mfg. Co.

N. Y., Brooklyn

New York Stamping Co., N. 11th and Berry Sts.

N. Y., Buffalo

Aldrich Mfg. Co., 55 Illinois St.

Ray Mfg. Co., Geo. A., 1495 Niagara St.

N. Y., New York City

Estey Wire Works Co., 59 Fulton St.

Pa., York

Foreman Systems

Hoods, Acid*Ill., Chicago*

Hlg Electric Ventilating Co.

N. Y., New York City

Hayward & Co., S. F., 250 W. 54th St.

Hoods, Laboratory, Fireproof*N. Y., Jamestown*Dahlstrom Metallic Door Co., 10
Blackstone Ave.**Hoops, Iron, for Wood Tanks***Ill., Bateria*U. S. Wind Engine & Pump Co., 30
Water St**Hoppers, Steel***Ill., Chicago*Caldwell & Son Co., W. H., 17th St
and Western AveLink-Belt Co., W. 39th and Stewart
Ave*N. J., Garwood*

Beckley Perforating Co., North Ave

N. J., Jersey City

Koven & Bro., L. O., 151 Ogden Ave

N. Y., New York City

Dover Boiler Works, 50 Church St

Standard Tank Co., 15 Park Row

Stevens Bros., Singer Bldg

Ohio, Alliance

Reeves Bros. Co.

Ohio, Cleveland

Lakewood Engineering Co.

Ohio, Lectoria

Lectoria Boiler Works

Hose, Acid*Canada, Montreal*Canadian Consolidated Rubber Co.,
Ltd., 201 Inspector St.*Conn., Bridgeport*

Canfield Rubber Co., 129 Garden St.

Ill., Chicago

Fairbanks-Morse & Co.

Mass., Boston

Boston Belting Co., 84 Linden Park St.

N. J., Trenton

Acme Rubber Mfg. Co.

N. Y., Buffalo

Hewitt Rubber Co.

*N. Y., New York City*Gutta Percha & Rubber Mfg. Co., 127
Duane St.

New York Rubber Co., 84 Reade St.

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F., S. Main St

Goodyear Tire & Rubber Co.

*Ohio, Cincinnati*Cincinnati Rubber Mfg. Co., Franklin
Ave., Norwood*Ohio, Youngstown*

Republic Rubber Co.

Pa., Erie

Continental Rubber Works

Pa., Jeannette

Pennsylvania Rubber Co.

Pa., Philadelphia

Levick & Sons Co., 106 S. 13th St.

Hose, Air*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

U. S. Rubber Co.

Ohio, Akron

Goodrich Co., B. F.

Goodyear Tire & Rubber Co.

Hose, Armored*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

Pa., Philadelphia

Quaker City Rubber Co.

Hose, Braided*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

Hose, Chemical (*see Hose, Acid*)**Hose, Fire***Mass., Cambridge*Boston Belting Corporation, 110 Sum-
mer St

Boston Woven Hose & Rubber Co.

Mass., Chelsea

Revere Rubber Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Goodyear Tire & Rubber Co.

Pa., Philadelphia

Quaker City Rubber Co.

Hose, Gas*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

U. S. Rubber Co.

Hose, Hot Water*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

U. S. Rubber Co.

Hose, Hydraulic*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

U. S. Rubber Co.

Hose, Oil*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

U. S. Rubber Co.

Hose, Rubber (*see Hose, Acid*)**Hose, Sand Blast***Mass., Chelsea*

Revere Rubber Co.

N. J., Trenton

Home Rubber Co.

N. Y., Buffalo

Hewitt Rubber Co.

Pa., Erie

Continental Rubber Works

Humidifiers (*see also Air Conditioning Apparatus; Air Moistening Apparatus*)*Ill., Chicago*

Drying Systems, Inc., 320 N. Michigan Ave.

Hlg Electric Ventilating Co., 131 Whit-
ing St.*Mass., Boston*

Sturtevant Co., B. F., Hyde Park

Mass., Fitchburg

Parks Co., G. M.

Mich., Detroit

American Blower Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*N. J., Newark*Greeff Engineering & Mfg. Co., 36
Spring St.*N. Y., Buffalo*

Buffalo Forge Co., 490 Broadway

*N. Y., New York City*Carrier Engineering Co., 39 Cortlandt
St.*Pa., Philadelphia*

Monarch Mfg. Works, 3129 Emery St.

R. I., Providence

Tillotson Humidifier Co.

Humidifying Apparatus (*see Humidifiers*)**Humidity Control** (*see also Humidifiers*)*N. Y., New York City*Carrier Engineering Corp., 39 Cort-
landt St.*Va., Richmond*Richmond Engineering Co., 12 S. 8th
St.**Hydrants, Fire***Ill., Chicago*

Aermotor Co., Campbell Ave., S.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., Seneca Falls

Goulds Mfg. Co.

Hydrated Lime Plants*Md., Baltimore*Meade & Co., Richard K., 608 Law
Bldg.**Hydraulic Machinery** (*see Specific Headings*)**Hydrochloric Acid Cooling and Absorption Systems** (*see Cooling Systems; Absorption Systems*)**Hydrogen***Ind., Fort Wayne*

Western Gas Construction Co

*N. J., Newark*International Oxygen Co., 796 Freling-
huysen Ave.*N. Y., New York City*

Air Reduction Sales Co., 120 Broadway

Electrolytic-Oxy-Hydrogen Labora-
tories, Inc., 15 William St.International Oxygen Co., 115 Broad-
way*Ohio, Cleveland*

Gas Machinery Co., 1900 Euclid Ave.

Pennsylvania Salt Mfg. Co., Wiedner
Bldg**Hydrogen Peroxide Plants***N. Y., Brooklyn*Johnson Co., John, 37th St. and 2d
Ave**Hydrogen Plants***N. Y., New York City*Air Reduction Sales Co., 120 Broad-
wayElectrolytic Oxy-Hydrogen Labora-
tories, Inc., 15 William St.Improved Equipment Co., 60 Wall St.
Linde Air Products Co., 12d St. Bldg.**Hydrogen Testing Apparatus***N. Y., New York City*International Oxygen Co., 115 Broad-
way**Hydrogenation Equipment***N. Y., New York City*Electrolytic Oxy-Hydrogen Labora-
tories, Inc., 15 William St.**Hydrometers***Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

Daigger & Co., A., 52-56 W. Kinzie St.

Laboratory Materials Co., 640 E. 71st
StRepublic Flow Meters Co., 565 Wash-
ington Blvd.

Hydrometers—cont.*Ill., Chicago—cont.*

Schaar & Co., 1025 S. State St.

Wagner, Carl H., 1944 N. Albany Ave.

N. J., Rutherford

Becton Dickinson Co.

N. Y., Brooklyn

Berg Mfg. Co., James, 3707 12th Ave.

Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City

American Scientific Instrument Co., Inc., 50-56 John St.

*American Thermo-Ware Co., 16 Warren St.

*Berge, J. & H., 95 John St.

*Bernard & Co., F. J., 70 Murray St.

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Greiner Co., The Emil, Fulton and Cliff Sts.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Palo Co., 90-92 Maiden Lane

Scientific Utilities Co., Inc., 84 E. 10th St.

N. Y., Rochester

Bausch & Lomb Optical Co.

Taylor Instrument Cos.

Will Corporation

Ohio, Columbus

*Laboratory Supply Co.

Pa., Carbondale

Carbondale Calcium Co.

Griebel Instrument Co.

Pa., Philadelphia

Philadelphia Thermometer Co., 9th and Arch Sts.

Queen-Gray Co., 616 20 Chestnut St.

*Thomas Co., Arthur H., W. Washington Sq.

Hydroquinone Apparatus*N. Y., Buffalo*

Devine Co., J. P.

Hygrometers*Conn., Waterbury*

Bristol Co.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., Brooklyn

*Green, Henry J., 1191 Bedford Ave.

Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City

*Bernard & Co., F. J., 70 Murray St.

Eimer & Amend, 205-211 3d Ave.

N. Y., Rochester

Taylor Instrument Cos.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Hypochlorite Plants*N. Y., New York City*

Industrial Filtration Corp., 115 Broadway

New York Continental Jewell Filtration Co., 15 Broad St.

Ice Making Machinery (*see Refrigeration Machinery*)**Ice Manufacturers' Supplies***N. Y., New York City*

Schwenker, Inc., W. M., 340-344 E. 92d St.

Ice Plants (*see Refrigerating Machinery*)**Ignition Apparatus***Ill., Chicago*

Accurate Engineering Co.

Mass., Springfield

Witherbee Igniter Co.

N. Y., New York City

Bosch Magneto Co., 223-225 W. 46th St.

Ignition Metal*N. Y., New York City*

Haring, Ellsworth, 114-118 Liberty St.

Illumination, Scientific*N. Y., New York City*

Holophane Glass Co., Inc., 340 Madison Ave.

Imbedding Materials*Ill., Chicago*

*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Impregnating Apparatus*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

N. Y., New York City

Koven & Bro., L. O., 50 Church St.

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Incinerators*Mass., Fall River*

Scott & Co., Ernest

Minn., Minneapolis

Decarie Incinerator Co.

Incinerators—cont.*N. Y., New York City*

Washburn & Granger, 50 Church St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Inclinor, Union Carboy*Minn., Minneapolis*McCord & Co., Inc., Horace M., 1013
Lumber Exchange**Incubators***Cal., San Francisco*Braun-Knecht-Heimann, 560 Mission
St.*Ill., Chicago**Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314
W. Superior St.

*Daigger & Co., A., 52-56 W. Kinzie St.

N. J., Newark

Thermo Electric Instrument Co.

*N. Y., New York City**Eimer & Amend, 3d Ave., 18th to 19th
Sts.*Lenz Apparatus Co., Inc., 18 E. 16th
St.*Scientific Utilities Co., Inc., 84 E.
10th St.Watters Laboratories, Cons., 55 5th
Ave.*Pa., Philadelphia*

Boekel & Co., Wm., 518 Vine St.

*Thomas Co., Arthur H., W. Washing-
ton Sq.**Incubators, Bacteriological***Ill., Chicago*Chicago Surgical & Electrical Co., 314
W. Superior St.*Physicians Laboratory Supply Co.,
119-121 N. Wabash Ave.*N. Y., Rochester*

Wilmot Castle Co., 800 St. Paul St.

Incubators, Compartment*Ill., Chicago*Chicago Surgical & Electrical Co., 314
W. Superior St.**Incubators, Electric***Ill., Chicago**Physicians Laboratory Supply Co.,
119-121 N. Wabash Ave.*N. J., Newark*Thermo Electric Instrument Co., 8
Johnson St.*N. Y., New York City**Scientific Utilities Co., Inc., 84 E.
10th St.**Indicating Instruments (see Indi-
cators)****Indicator Fittings and Supplies***Mass., Boston*American Steam Gauge & Valve Mfg.
Co.Crosby Steam Gauge & Valve Co., 40
Central St.**Indicator Posts***Conn., Hartford*

Pratt & Cady Co., Inc.

Mich., Detroit

Stephens Mfg. Co., Roe

N. Y., Elmira

Kennedy Valve Mfg. Co.

Indicators, Ammonia*Mass., Boston*American Steam Gauge & Valve Mfg.
Co., 206 Camden St.*Mass., Foxboro*

Foxboro Co., Inc.

*N. Y., Brooklyn*Tagliabue Mfg. Co., C. J., 18-88 33d
St.*Pa., Corry*

Trill Indicator Co.

Pa., Philadelphia

Brown Instrument Co.

Indicators, Carbon Dioxide*Ill., Chicago*

Dwight Mfg. Co., 12-14 S. Jefferson St.

N. Y., Brooklyn

Tagliabue Co., C. J., 18-88 33d St.

N. Y., New York City

Uehling Instrument Co., Empire Bldg.

*Pa., Pittsburgh*Bacharach Industrial Instrument Co.,
422 1st Ave.

Thwing Instrument Co.

Indicators, Gas*Mass., Boston*American Steam Gauge & Valve Mfg.
Co., 206 Camden St.*Mass., Foxboro*

Foxboro Co., Inc.

*N. Y., Brooklyn*Tagliabue Mfg. Co., C. J., 18-88 33d
St.*N. Y., New York City*

Uehling Instrument Co., Empire Bldg.

Pa., Corry

Trill Indicator Co.

Pa., Philadelphia

Brown Instrument Co.

Indicators, Oil*Mass., Boston*American Steam Gauge & Valve Mfg.
Co., 206 Camden St.*Mass., Foxboro*

Foxboro Co., Inc.

*N. Y., Brooklyn*Tagliabue Mfg. Co., C. J., 18 88 33d
St.*N. Y., New York City*

Uehling Instrument Co., Empire Bldg.

Pa., Corry

Trill Indicator Co.

Indicators, Speed*Conn., Bristol*

Root Co., C. J., 150 Bridge St.

Conn., Hartford

Veeder Mfg. Co.

*Mass., Boston*American Steam Gauge & Valve Mfg.
Co.*Mass., Foxboro*

Foxboro Co., Inc.

*N. J., Newark*Weston Electrical Instrument Co.,
Waverly Park*N. Y., Brooklyn*Tagliabue Mfg. Co., C. J., 18 88 33d
St.*Pa., Philadelphia*

Biddle, James G., 1211-13 Arch St.

Electric Tachometer Corp., Perry
Bldg.**Indicators, Steam***Mass., Boston*American Steam Gauge & Valve Mfg.
Co., 206 Camden St.*Mass., Foxboro*

Foxboro Co., Inc.

*N. Y., Brooklyn*Tagliabue Mfg. Co., C. J., 18 88 33d
St.*N. Y., New York City*

Uehling Instrument Co., Empire Bldg.

N. Y., Rochester

Taylor Instrument Cos.

Pa., Corry

Trill Indicator Co.

Indicators, Tank Depth*Pa., Philadelphia*Quimby Engineering Co., 450 N. 10th
St.**Industrial Equipment** (*see Specific Headings*)**Industrial Heating Process** (*see Heat Transmission Fluid*)**Industrial Plants** (*see Specific Headings*)**Injectors***Ill., Chicago*Chicago Pneumatic Tool Co., Fisher
Bldg.*Mich., Detroit*American Injector Co.
Penberthy Injector Co.*N. Y., Buffalo*Sherwood Mfg. Co., 1710 Elmwood
Ave.*N. Y., New York City*

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

*Ohio, Cincinnati*Powell Co., The Wm., 2521 Spring
Grove Ave.*Ohio, East Akron*

Knight, Maurice A.

Ohio, Urbana

Desmond-Stephan Mfg. Co.

Ohio, Wadsworth

Ohio Injector Co., S. Main St.

Pa., Erie

Watson, N. A., 2016 State St.

*Pa., Philadelphia*Eynon-Evans Mfg. Co., 15th and
Clearfield Sts.

Rue Mfg. Co., 228 Cherry St.

Sellers & Co., Inc., Wm., 1600 Hamil-
ton St.**Injectors for Acid and Gases***Ohio, East Akron*

Knight, Maurice A.

Instruments (*see Specific Heading*)**Insulating Compound Machinery***Mich., Saginaw*Werner & Pfeleiderer Co., 1260 N. Ni-
agara St.**Insulation, Cork***N. Y., New York City*Johns-Manville Co., H. W., Madison
Ave. and 41st St.*Pa., Pittsburgh*

Armstrong Cork & Insulation Co.

Insulation, Electrical*Ill., Chicago*Redmanol Chemical Products Co., 626
W. 22d St.*Mass., Boston*

Revere Rubber Co.

N. J., Bloomfield

Condensite Co. of America

N. Y., New York City

General Bakelite Co., 2 Rector St.

Johns-Manville Co., H. W., Madison
Ave. and 41st St.

Mechanical Rubber Co., 73 Rector St.

N. Y., Schenectady

General Electric Co.

Insulation Materials*Del., Wilmington*

American Vulcanized Fibre Co., Equitable Bldg.

Delaware Hard Fibre Co.

Ill., Chicago

Redmanol Chemical Products Co., 626 W. 22d St.

*Mass., Boston*Cabot, Inc., Samuel, 143 Milk St.
Revere Rubber Co.*N. J., Bloomfield*

Condensite Co. of America

N. Y., New York City

American Hard Rubber Co.

*N. Y., New York City*American Mica Co.
Celite Products Co., 11 Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., Madison Ave. and 41st St.*N. Y., Schenectady*

General Electric Co.

Ohio, Akron

Goodrich Co., B. F.

Ohio, Lockland

Carey Mfg. Co., Philip

Pa., Pittsburgh

Armstrong Cork & Insulation Co.

Insulation Materials, Thermal*N. Y., New York City*

Celite Products Co., 11 Broadway

Insulators, Electrical*Ill., Chicago*

Redmanol Chemical Products Co., 636 W. 22nd St.

Intermediates, Plants for*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

*N. Y., New York City*General Ceramics Co., 50 Church St
Westinghouse, Church, Kerr & Co., 37 Wall St.*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co

Pa., Williamsport

Valley Iron Works

Iron and Steel Analysis Apparatus*Pa., Pittsburgh*

Scientific Materials Co., 711-719 Forbes St.

Irrigation Systems*Mass., Boston*

Spray Engineering Co., 93 Federal St.

Isinglass*Ill., Chicago*

Armour Glue Co.

N. Y., New York City

*Lehn & Fink, Inc., 120 William St.

*McKesson & Robbins, Inc., 91 Fulton St.

National Gum & Mica Co., 59th St. and 11th Ave.

*Schwenker, Inc., W. M., 340-344 E. 92d St.

Jacketed Apparatus*N. Y., New York City*

Van Emden Co., H., 145 W. 45th St.

Jackets, Cast Iron*Colo., Denver*

Colorado Iron Works Co.

Jackets, Steel*Colo., Denver*

Colorado Iron Works Co.

Jackets, Tap*Colo., Denver*

Colorado Iron Works Co.

Jackets, Water*Ill., Chicago Heights*

Chalmers & Williams, Inc

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave

N. Y., New York City

Dover Boiler Works, 50 Church St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Jars, Acid Proof*Ill., Monmouth*

Western Stoneware Co.

Ill., White Hall

Ruckel & Son, A. D.

Ky., Louisville

Louisville Pottery Co., Floyd and Bloom Sts.

Ky., Paducah

Paducah Pottery Co.

N. J., New Brunswick

Green, A.

N. J., Trenton

Maddock & Son, John

Jars, Acid Proof—cont.*N. Y., Corning*

Corning Glass Works

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

*Eimer & Amend; 205-211 3d Ave.

General Ceramics Co., 50 Church St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Robinson Clay Products Co., of New York, Fuller Bldg.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Ohio, Logan

Logan Pottery Co.

Pa., New Brighton

Sherwood Bros. Co.

Jars, Acid Storage (*see Jars, Acid Proof*)**Jars, Battery***N. J., Millville*

International Glass Works

N. Y., Corning

Corning Glass Works

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Ohio, Cambridge

Cambridge Glass Co.

Pa., Philadelphia

Whitall-Tatum Co.

Jars, Bleaching*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Jars, Chemical Stoneware (*see Jars, Acid Proof*)**Jars, Decanting***N. Y., Rochester*

Will Corporation

Jars, Desiccating*Ohio, Cambridge*

Cambridge Glass Co.

Jars, Dipping, Acid Proof (*see Jars, Acid Proof*)**Jars, Galvanizing, Acid Proof***Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Jars, Glass (*see Glass, Chemists, Glassware, Chemical*)**Jars, Hydrometer***N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., New York City

Bernard & Co., F. J., 70 Murray St.

Ohio, Cambridge

Cambridge Glass Co.

Jars, Leyden (Pyrex Glass)*N. Y., Corning*

Corning Glass Works

Jars, Milk Test*Ohio, Cambridge*

Cambridge Glass Co.

Jars, Percolating*Ohio, Cambridge*

Cambridge Glass Co.

Jars, Precipitating*Ohio, Cambridge*

Cambridge Glass Co.

Pa., Philadelphia

Thomas Co., Arthur H., W. Washington Sq.

Jars, Primary and Storage Battery*N. Y., New York City*

Corning Glass Works

Jars, Specie*N. Y., Rochester*

Will Corporation

Jars, Specimen*Ohio, Cambridge*

Cambridge Glass Co.

Jars, Staining*N. Y., New York City*

Bernard & Co., F. J., 70 Murray St.

Ohio, Cambridge

Cambridge Glass Co.

Jars, Storage, Stoneware*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

Graham Chemical Pottery Works

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Jars, Vacuum*Conn., New Britain*

Landers, Frary & Clark

N. J., Belleville

Bartlett Vacuum Jar Co.

*N. Y., New York City*General Ceramics Co., 50 Church St.
Vacuum Specialty Co., 624 1st Ave.*Ohio, Akron*

U. S. Stoneware Co

Jets, Acid Proof*N. J., Newark*

Acid Proof Iron Products Co., Inc.

*N. Y., New York City*Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.**Jigs***Cal., San Francisco*

Llewellyn Iron Works

*Colo., Denver*Colorado Iron Works Co
Mine & Smelter Supply Co.*Ill., Chicago*

Link-Belt Co., W. 39th and Stewart Ave.

N. Y., New York City

Worthington Pump & Machinery Corporation, 115 Broadway

Ohio, Columbus

Jeffrey Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Jugs, Acid Proof*Ohio, East Akron*

Knight, Maurice A.

Jugs, Mercury, Stone*Ill., Monmouth*

Western Stoneware Co.

Ohio, Akron

U. S. Stoneware Co.

Junctions, Acid Proof*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Kegs, Steel*N. Y., New York City*

American Can Co., 120 Broadway

Pa., Sharon

Petroleum Iron Works Co.

Kegs, Wood*Md., Baltimore*

Baltimore Cooperage Co.

N. H., Nashua

Procter Bros. & Co., Marshall St.

*N. Y., Niagara Falls*International Cooperage Co., Inc.,
Erie Ave. and 9th St.**Kettles, Acid Resistant***Mass., Boston*

Badger & Sons Co., E. B., 75 Pitts St.

N. J., Burlington

Stuart & Peterson Co.

N. J., Jersey City

Koven & Bro., L. O

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. Y., Buffalo

Buffalo Foundry & Machinery Co.

Devine Co., J. P.

Sowers Mfg. Co.

*N. Y., New York City*Bethlehem Foundry & Machine Co.,
149 Broadway

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

N. Y., Rochester

Pfaudler Co., The

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Fullerton

Fuller-Lehigh Co.

*Pa., Philadelphia*Kutztown Foundry & Machine Co.,
Morris Bldg.*Pa., Williamsport*

Valley Iron Works

Wis., Manitowoc

Manitowoc Engineering Works

Kettles, Cast Iron*Ala., Birmingham*

American Cast Iron Pipe Co.

Ill., Batavia

Sperry & Co., D. R.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Mich., Saginaw

Wickes Boiler Co.

*Mo., St. Louis*Aufrichtif Copper & Iron Works, 900
S. 3d St.*N. J., Burlington*

Stuart & Peterson Co.

United States Cast Iron, Pipe & Foundry Co.

Kettles, Cast Iron—cont.

- N. J., Carteret*
Wheeler Condenser & Engineering Co.
- N. J., Jersey City*
Koven & Bro., L. O., 200 Ogden Ave.
- N. J., Newark*
Acid Proof Iron Products Co.
- N. Y., Albany*
Town-end Furnace & Machine Shop
Co., Broadway and Rensselaer St.
- N. Y., Brooklyn*
Improved Appliance Co., 415 Kent Ave.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co.
Buffalo Steam Pump Co.
Sowers Mfg. Co.
Devine Co., J. P., 1380 Clinton St.
- N. Y., New York City*
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August
United Lead Co., 111 Broadway
Van Emden Co., H., 145 W. 45th St.
- N. Y., Rochester*
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
- Ohio, Akron*
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
U. S. Stoneware Co.
Weeks, A. J.
- Ohio, Cincinnati*
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
- Ohio, Elyria*
Elyria Enameled Products Co.
- Ohio, Leetonia*
Leetonia Boiler Co., Kunkel Bldg.
- Pa., Fullerton*
Fuller-Lehigh Co.
- Pa., North Philadelphia*
Stokes Machine Co., F. J.
- Pa., Pittsburgh*
Rosedale Foundry & Machine Co.,
Columbus and Preble Aves.
- Pa., Williamsport*
Valley Iron Works
- Mo., St. Louis*
Aufrecht Copper & Iron Works, 900 S. 3d St.
- N. J., Burlington*
Stuart & Peterson Co.
- N. J., Carteret*
Wheeler Condenser & Engineering Co.
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. J., Newark*
Acid Proof Iron Products Co., Inc.
- N. Y., Buffalo*
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
- N. Y., New York City*
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August
United Lined Tube & Lead Co., 111 Broadway
- N. Y., Rochester*
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
- Ohio, Akron*
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
- Ohio, Cincinnati*
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
- Ohio, Elyria*
Elyria Enameled Products Co.
- Pa., North Philadelphia*
Stokes Machine Co., F. J.
- Pa., Williamsport*
Valley Iron Works

Kettles, Copper

- Mass., Boston*
Badger & Sons Co., R. E., 75 Pitts St.
- Mich., Detroit*
Detroit Heating & Lighting Co.
- N. Y., Brooklyn*
Improved Appliance Co., 415 Kent Ave.
- Pa., Philadelphia*
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Morris Sts.
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. J., Buffalo*
Devine Co., J. P.
- N. Y., New York City*
Roos' Sons, August, 429 E. 91st St.
- Ohio, Cincinnati*
Macleod Co., 2232-36 Bogen St.
- Pa., Fullerton*
Fuller-Lehigh Co.

Kettles, Caustic Soda

- Ill., Batavia*
Sperry & Co., D. R.
- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts St.
- Mich., Saginaw*
Wickes Boiler Co.

Kettles, Steam Jacketed—cont.*N. J., Newark*

Acid Proof Iron Products Co., Inc.
Hanson & Van Winkle Co., 269 Oliver St.

N. Y., Brooklyn

Improved Appliance Co., 415 Kent Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co.
Devine Co., J. P., 1380 Clinton St.
Farrar & Trefts, Inc.
Sowers Mfg. Co., 1298-1310 Niagara St.

N. Y., New York City

Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.

Mott Iron Works, J. L., 118 5th Ave.

United Lined Tube & Valve Co., 111 Broadway

N. Y., Rochester

Pfaudler Co.
Stevens Bros., 928 Singer Bldg.

Ohio, Akron

Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232 Bogen St.

Ohio, Elyria

Elyria Enameled Products Co.

Ohio, Hamilton

Hamilton Copper & Brass Works

Pa., Fullerton

Fuller-Lehigh Co

Pa., North Philadelphia

Stokes Machine Co., F. J.

Pa., Williamsport

Valley Iron Works

Kettles, Stoneware*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The
Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Kettles, Sulphonating*Ill., Batavia*

Sperry & Co., D. R.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitta St.

Mich., Saginaw

Wickes Boiler Co.

Mo., St. Louis

Aufrichtif Copper & Iron Works, 900 S. 3d St.

N. J., Burlington

Stuart & Peterson Co.

N. J., Carteret

Wheeler Condenser & Engineering Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. Y., Albany

Townsend Furnace & Machine Shop
Co., Broadway and Rensselaer St.

N. Y., Buffalo

Buffalo Foundry & Machine Co.
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.

N. Y., New York City

Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.

Mott Iron Works, J. L., 118 5th Ave.

United Lined Tube & Valve Co., 111 Broadway

N. Y., Rochester

Pfaudler Co.
Stevens Bros., 928 Singer Bldg.

Ohio, Akron

Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Fullerton

Fuller-Lehigh Co

Pa., North Philadelphia

Stokes Machine Co., F. J.

Pa., Williamsport

Valley Iron Works

Kettles, Tar*Ill., Batavia*

Sperry & Co., D. R.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Mich., Saginaw

Wickes Boiler Co.

Ohio, Cincinnati

Macleod Co., 2232-36 Bogen St.

Kettles, Vacuum

- Ill., Batavia*
Sperry & Co., D. R.
- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts St.
- Mich., Saginaw*
Wickes Boiler Co.
- Mo., St. Louis*
Aufrichtif Copper & Iron Works, 900 S. 3d St.
- N. J., Burlington*
Stuart & Peterson Co.
- N. J., Carteret*
Wheeler Condenser & Engineering Co.
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. J., Newark*
Acid Proof Iron Products Co.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
- N. Y., New York City*
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lined Tube & Valve Co., 111 Broadway
- N. Y., Rochester*
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
- Ohio, Akron*
Biggs Boiler Works Co., Kent St. and B & O. R. R.
- Ohio, Cincinnati*
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
- Ohio, Elyria*
Elyria Enameled Products Co.
- Pa., North Philadelphia*
Stokes Machine Co., F. J.
- Pa., Williamsport*
Valley Iron Works

Kettles, Varnish (Welded)

- Ill., Batavia*
Sperry & Co., D. R.
- Mass., Boston*
Badger & Sons Co., 75 Pitts St.
- N. Y., Buffalo*
Sowers Mfg. Co.
- Pa., Carbondale*
American Welding Co.

Kettles, Water Jacketed

- Ill., Batavia*
Sperry & Co., D. R.

- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts St.
- Mich., Saginaw*
Wickes Boiler Co.
- Mo., St. Louis*
Aufrichtif Copper & Iron Works, 900 S. 3d St.
- N. J., Burlington*
Stuart & Peterson Co.
- N. J., Carteret*
Wheeler Condenser & Engineering Co.
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. J., Newark*
Acid Proof Iron Products Co., Inc.
- N. Y., Buffalo*
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
- N. Y., New York City*
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
- N. Y., Rochester*
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
- Ohio, Akron*
Biggs Boiler Works Co., Kent St. and B & O. R. R.
- Ohio, Cincinnati*
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
- Ohio, Elyria*
Elyria Enameled Products Co.
- Pa., Fullerton*
Fuller-Lehigh Co.
- Pa., North Philadelphia*
Stokes Machine Co., F. J.
- Pa., Williamsport*
Valley Iron Works
- Wis., Milwaukee*
Sommers & Sons Co., Galena and 31st Sts.

Kilns, Cement

- Ill., Chicago*
Stroud & Co., E. H., 928 Fullerton Ave.
- N. Y., New York City*
Aero Pulverizer Co., 120 Broadway
Gerdes & Co., Inc., 40 Church St.
- Ohio, Alliance*
Reeves Bros. Co.
- Pa., Coatesville*
Coatesville Boiler Works
- Pa., Pittsburgh*
Sterrit-Thomas Foundry Co., 32d and Smallman Sts.

Kilns, Dry

- Md., Baltimore*
Meade & Co., Richard K., 608 Law Bldg.
- Mass., Boston*
Sturtevant Co., B. F., Hyde Park
- Mich., Detroit*
American Blower Co.
- Mich., Kalamazoo*
Clarage Fan Co.
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. Y., New York City*
Ruggles-Coles Engineering Co., 50 Church St.
- Pa., Chester*
Wetherill & Co., Robert
- Pa., Philadelphia*
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
- Pa., Pittsburgh*
Hagan Co., George J., 401 People's Bank Bldg.

Kilns, Lime

- Ill., Chicago*
Stroud & Co., E. H., 928 Fullerton Ave.
- Md., Baltimore*
Meade & Co., Richard K., 608 Law Bldg.
- Mich., Saginaw*
Wickes Boiler Co.
- N. Y., New York City*
Aero Pulverizer Co., 120 Broadway
Gerdes & Co., Inc., 40 Church St.
Improved Equipment Co., 60 Wall St.
- Pa., Coatesville*
Coatesville Boiler Works
- Pa., York*
Steacy-Schmidt Mfg. Co.

Kilns, Rotary

- Ill., Chicago*
Redfield, Robert S., 327 S. La Salle St.
Stroud & Co., E. H., 928 Fullerton Ave.
- Mich., Saginaw*
Wickes Boiler Co.
- N. Y., New York City*
American Process Co., 68 William St.
- Ohio, Alliance*
Reeves Bros. Co., 338 Rush St.
- Ohio, Cleveland*
Bartlett & Snow Co., C. O.
- Pa., South Bethlehem*
Bethlehem Foundry & Machine Co.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co.

Kjeldahl Apparatus (*see Laboratory Apparatus and Equipment*)**Kneading Machines**

- Mich., Saginaw*
Werner & Pfeiderer Co., 1260 N. Niagara St.
- N. Y., Buffalo*
Sowers Mfg. Co., 1300 Niagara St.
- N. Y., New York City*
Machinery Utilities Co., Inc., 501 5th Ave.
- Ohio, Cincinnati*
Day & Co., J. H., 1142 Harrison Ave.
- Scotland, Glasgow*
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Kneaders, Vacuum

- Mich., Saginaw*
Werner & Pfeiderer Co., 1260 N. Niagara St.

Labels

- Mass., Framingham*
Dennison Mfg. Co.

Labels, Gummed Paper

- Mass., Framingham*
Dennison Mfg. Co.

Laboratory Apparatus and Equipment (*see also Apparatus*)

- Cal., Berkeley*
University Apparatus Co., 2229 McGee Ave.
- Cal., San Francisco*
Braun Corp., The, 363-371 New High St.
- Colo., Denver*
Denver Fire Clay Co.
Mine & Smelter Supply Co.
- England, Birmingham*
Belchers (Standley) & Mason, Ltd., Church St.
- Ill., Chicago*
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Laboratory Materials Co., 7404 Calumet Ave.
Sargent & Co., E. H., 155-165 E. Superior St.
Schaar & Co., 1025 S. State St.
Stoelting Co., C. H., 3045 Carroll Ave.
Welch Mfg. Co., W. M., 1516 Orleans St.
- Iowa, Cedar Rapids*
Johnson Gas Appliance Co., 520 E. and W. St.
- Mass., Boston*
International Equipment Co., 352 Western Ave.
Knott Apparatus Co., L. E.
Mahady Co., F. F.

Laboratory Apparatus and Equipment—*cont.*

Mass., Worcester

Norton Co.

Md., Woodlawn

Powhatan Mining Co.

Mich., Ann Arbor

Eberbach & Son Co.

Mich., Detroit

Detroit Heating & Lighting Co.

Mich., Saginaw

Werner & Pfeleiderer, Inc.

Mo., St. Louis

Heil Chemical Co., Henry, 210-214 S. 4th St.

N. J., Jersey City

Dixon Crucible Co., Joseph

N. J., Millville

International Glass Co.

N. J., Newark

Baker & Co., Inc.

Hanovia Chemical & Mfg. Co.

N. Y., Brooklyn

Improved Appliance Co., 415 Kent Ave

N. Y., Corning

Corning Glass Works

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

Doniger & Co., 164 5th Ave.

Duriron Castings Co., 90 West St.

Eimer & Amend, 205-211 3d Ave.

General Ceramics Co., 50 Church St.

Greiner Co., Emil, 55 Fulton St.

Lenz Apparatus Co., Inc., 18 E. 16th St.

Mine & Smelter Supply Co., 42 Broadway

Palo Co., 90-94 Maiden Lane

Scientific Equipment Co., 70 5th Ave.

Standard Scientific Co., 147-152 Waverly Pl.

Thermal Syndicate, Ltd., 50 E. 41st St.

N. Y., Rochester

Bausch & Lomb Optical Co.

Castle, Wilmot Co., 800 St. Paul St.

Pfaudler Co., The

Will Corporation

Oregon, Portland

Woodward, Clark & Co

Pa., Malvern

Bishop & Co., Platinum Works, J.

Pa., Philadelphia

Boekel & Co., Wm.

Thomas Co., Arthur H., W. Washington Sq.

Whitall-Tatum Co., 410 Race St.

Pa., Pittsburgh

Laboratory Apparatus Co.

Macbeth-Evans Glass Co.

Scientific Materials Co., 711-719 Forbes St.

Pa., Rochester

Fry Glass Co., H. C.

Wis., Kewanee

Kewanee Mfg. Co.

Laboratory Furniture (*see also Specific Headings*)

Mass., Boston

*Knott Apparatus Co., L. E., Cambridge "A" Station

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

N. Y., New York City

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

*Palo Co., 90 Maiden Lane

*Scientific Equipment Co., 70 5th Ave.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 719 Forbes St.

Wis., Kewanee

Kewanee Mfg. Co.

Laboratory Gas Machines

N. Y., New York City

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Laboratory Instruments (*see Chemical Apparatus, Laboratory Apparatus and Equipment*)

Laboratory Ware (*see Laboratory Apparatus and Equipment*)

Laboratory Water and Gas Fixtures

Mass., Boston

Knott Apparatus Co., L. E., Cambridge "A" Station

Ladles

Colo., Denver

Colorado Iron Works Co.

Ill., Harvey

Whiting Foundry Equipment Co.

Mass., Boston

Badger & Sons Co., R. E., 75 Pitts St.

Pa., Coatesville

Coatesville Boiler Works

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Midland

Treadwell Construction Co.

Pa., Pittsburgh

Marshall Foundry Co., 28th and Railroad Sts.

Lamps, Acetylene*Cal., San Francisco*

Braun-Knecht-Heimann Co., 584 Mission St.

Ill., Chicago

Justrite Mfg. Co., 2061 Southport Ave.

Lamps, Alcohol*Ill., Chicago*

Central Scientific Co., 460 E. Ohio St.

N. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

N. Y., New York City

Aluminum Goods Mfg. Co., 30 Church St.

Houchin Co., Thos. W., 38 E. 21st St.

Thurnauer & Bro., G. M., 83 Worth St.

Ohio, Cambridge

Cambridge Glass Co.

Lamps, Daylight*N. Y., New York City*

Palo Co., 90 Maiden Lane

Lamps, Electric*N. J., Hoboken*

Cooper Hewitt Electric Co., 8th and Grand Sts

N. Y., Schenectady

General Electric Co

Pa., Pittsburgh

Westinghouse Electric & Mfg. Co.

Lamps, Laboratory*N. J., Hoboken*

Cooper-Hewitt Electric Co., 8th and Grand Sts.

Ohio, Cleveland

Dangler Stove Co., 5017 Perkins Ave.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Lamps, Mazda*N. Y., Schenectady*

General Electric Co.

Lamps, Pentane*Mich., Detroit*

Precision Instrument Co., Fort and Wayne Sts.

Lamps, Quartz, Mercury Arc*N. J., Hoboken*

Cooper-Hewitt Electric Co., 8th and Grand Sts.

N. J., Newark

Hanovia Chemical & Mfg. Co.

N. Y., New York City

*Engelhard, Chas., 30 Church St.

R. U. V. Co., 120 Broadway

N. Y., Schenectady

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Lamps, Quartz, Ultra-Violet Light (see *Lamps, Quartz, Mercury Arc*)**Lamps, Gasoline***Ohio, Canton*

Sun Vapor & Street Light Co.

Lanterns, Acetylene*Ill., Chicago*

Justrite Mfg. Co., 2061 Southport Ave.

Ohio, Cincinnati

Macleod Co., 2232-36 Bogen St.

Lanterns, Electric*N. Y., Schenectady*

General Electric Co.

Lanterns, Projection*N. Y., Buffalo*

Spencer Lens Co.

N. Y., Rochester

Bausch & Lomb Optical Co.

Laths, Expanded Metal*Mich., Detroit*

Trussed Concrete Steel Co.

Ohio, Canton

Berger Mfg. Co.

Ohio, Youngstown

General Fireproofing Co.

Leaching Equipment*Colo., Denver*

Colorado Iron Works Co.

Dorr Co., Cooper Bldg.

Ill., Chicago

Swenson Evaporator Co., Monadnock Bldg.

Me., Portland

Electron Chemical Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummas Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mass., Springfield

Green Co., Samuel M.

Leaching Equipment—cont.

- N. J., Elizabeth*
Moore & Sons, Corp., Samuel L.
- N. J., Jersey City*
Koven & Bro., L. O., 154 Ogden Ave.
- N. Y., Brooklyn*
Abernathy, John F., 703 Myrtle Ave.
Johnson Co., John, 37th and 2d Aves.
- N. Y., Buffalo*
Devine Co., J. P.
Zaremba Co., Niagara Life Bldg.
- N. Y., New York City*
American Lead Burning Co., 30 Church St.
Dorr Co., The, 17 Battery Pl.
Electrolytic Engineering Corporation, 501 Fifth Ave.
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
General Ceramics Co., 50 Church St.
Industrial Filtration Corp., 115 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Roos' Son, August, 429 E. 91st St.
Warner Chemical Co., 52 Vanderbilt Ave.
- N. Y., Rochester*
Pfaudler Co., The
- Ohio, East Akron*
Knight, Maurice
- Pa., Coatesville*
Coatesville Boiler Works
- Pa., Philadelphia*
Electro-Chemical Supply & Engineering Co., Girard Bldg.
- Pa., South Bethlehem*
Bethlehem Foundry & Machine Co.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co.

Lead Alloys, Packing

- N. Y., New York City*
Rebele, L. J., 50 Church St.

Lead Burners

- Mass., Boston*
McNamara, M., 171 Broadway
- N. Y., Brooklyn*
Abernathy John F., 703 Myrtle Ave.
- N. Y., New York City*
American Lead Burning Corp., 30 Church St.
Kallperry Corporation, 31 Union Square, W.
- Ohio, Cincinnati*
Macleod Co., Bogen, St.
- Ohio, Columbus*
Rudolph, Philip J., 190 W. 1st Ave.

Lead Burning Apparatus

- Ill., Chicago*
Oxweld Acetylene Co.

- N. J., Newark*
International Oxygen Co., 796 Frelinghuysen Ave.

Lead, Packing

- N. Y., New York City*
Rebele, L. J., 50 Church St.

Lead Pencil Machinery

- Mich., Saginaw*
Werner & Pfeleiderer Co., 1260 N. Niagara St.

Lead Pipe Machinery

- N. Y., Brooklyn*
Robertson & Co., John, 133 Water St.

Lead Sheet

- Cal., San Francisco*
Selby Smelting & Lead Co., Merchants Exchange Bldg.
- Ill., Chicago*
Eagle Picher Lead Co., 208 S. La Salle St.
Great Western Smelting & Refining Co.
- Mo., St. Louis*
Hoyt Metal Co., 300 N. Broadway
- N. Y., New York City*
National Lead Co., 111 Broadway
United Lined Tube & Valve Co., 111 Broadway
- Lead Traps and Bends**
- N. Y., New York City*
Du Bois & Co., F. N., 245 9th Ave.
United Lined Tube & Valve Co., 111 Broadway

Lead Wool

- Mo., St. Louis*
Hoyt Metal Co., 300 N. Broadway
- N. Y., New York City*
National Lead Co., 111 Broadway
United Lined Tube & Valve Co., 111 Broadway

Leather, Artificial

- Del., Wilmington*
Du Pont Fabrikoid Co.
- N. J., Passaic*
Pantasoto Leather Co.
- Pa., Philadelphia*
Endura Mfg. Co., 63d St. and Eastwick Ave.

Leather Belt Dressing, Liquid

- N. Y., New York City*
Du Pont Chemical Works, 120 Broadway
- Ohio, Cincinnati*
Bradford Belting Co., 201 Walnut St.

Leather Chamois

Mass., Peabody
Clark Co., B.
N. J., Newark
Newark Chamois Co.
N. Y., Johnstown
Argensinger, Putnam & Co.
Pa., Great Bend
Black Horn Leather Co.

Leather, Flange

N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Leather, Hydraulic and Valve

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Leather, Lace

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
National Leather Belting Co., Inc.,
342 E. 38th St.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Leather Preservative

Mo., St. Louis
American Oleite Sales Co., 1404 N. Park Pl.

Leather, Protective

Mass., Worcester
Graton & Knight Mfg. Co.

Leather Strapping

Mass., Worcester
Graton & Knight Mfg. Co.

Leather Substitutes (*see Leather, Artificial*)**Lenses**

Mass., Southbridge
American Optical Co.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., Corning
Corning Glass Works
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Rochester
Fry Glass Co., H. C.

Lenses, Condensing

N. Y., Corning
Corning Glass Works

Levels

Colo., Denver
Ainsworth & Sons, Wm., 2153 Lawrence St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Taylor Instrument Cos.
Pa., Philadelphia
Queen-Gray Co., Inc., 618 Chestnut St.

Lids, Crucible (*see also Laboratory Apparatus and Equipment*)

Colo., Denver
Herold China & Pottery Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Lifts, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Pa., Philadelphia
Schutte & Koerting Co., 1251 N. 12th St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Lifts, Air Jet

Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.

Lifts, Liquid

Mass., Boston
Lummas Co., Walter E., 173 Milk St.

Lighting Equipment

Ind., Indianapolis
Presto-O-Lite Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
N. J., Hoboken
Cooper-Hewitt Electric Co.
N. Y., Schenectady
General Electric Co.

Lighting Units, Industrial

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Western Electric Co., 463 West St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lighting Units, Yard and Outdoor

Ill., Chicago

Benjamin Electric Mfg. Co., 120 S. Sangamon St.,

N. Y., Schenectady

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Lime Slacking Equipment

N. Y., Brooklyn

Improved Appliance Co., 413 419 Kent Ave.

N. Y., New York City

Dorr Co., 101 Park Ave.

Liners, Autoclaves

England, Deepfields, nr. Bilston, Staffs

Cannon Iron Foundries, Ltd.

Linings, Acid Proof

Ill., Chicago

Standard Asphalt & Refining Co., 208 S. La Salle St.

N. Y., New York City

Gutta Percha & Rubber Mfg. Co., 128 Duane St.

United Lined Tube & Valve Co., 111 Broadway

Ohio, Akron

Goodrich Co., B. F., S. Main St.

Pa., Philadelphia

Barber Asphalt Paving Co., Land Title Bldg.

Linings, Ball Mill

N. Y., New York City

Hardinge Conical Mill Co., 120 Broadway

Linings, Brake, Cork Insert

Mass., Boston

Cork Insert Co., 164 Federal St.

Linings, Furnace

Colo., Denver

Denver Fire Clay Co.

Mine & Smelter Supply Co.

Mo., St. Louis

Laclede-Christy Clay Products Co.

N. J., Jersey City

Dixon Crucible Co., Joseph

N. J., Perth Amboy

Didier-March Co.

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

Celite Products Co., 11 Broadway

N. Y., New York City

Acheson Graphite Co.

N. Y., Niagara Falls

Acheson Graphite Co.

Ohio, Akron

U. S. Stoneware Co.

Pa., Philadelphia

Lavine & Co., E. J., Bullitt Bldg.

Pa., Pittsburgh

Basic Products Co., 2119 Oliver Bldg.

Linings, Lead

N. Y., Brooklyn

Abernathy, John F., 703 Myrtle Ave.

Linings, Metal

N. Y., New York City

Smidth & Co., F. L., 50 Church St.

Linings, Rubber

N. Y., New York City

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Linings, Silex

N. Y., New York City

Abbé, Paul O., 30 Broad St.

Smidth & Co., F. L., 50 Church St.

Linings, Tin, Pure

N. Y., Brooklyn

Abernathy, John F., 703 Myrtle Ave.

Linings, Tube Mill

Pa., Catasauqua

Lehigh Car, Wheel & Axle Works

Linoleum Machinery

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

Liquid Chlorine Apparatus

N. Y., New York City

International Filtration Corp., 115 Broadway

Liquid Fuel Equipment

N. Y., Long Island City

Anthony Co., 138 West Ave.

N. Y., New York City

Best, Inc., W. N., 11 Broadway

Lithopone Apparatus

Mass., Boston

Badger & Sons Co., R. E., 75 Pitts St.

N. Y., Buffalo

Devine Co., J. P.

Loaders (see Conveying Machinery; Conveying Systems)

Lockers, Metal*Ill., Aurora*

Lyon Metallic Mfg. Co.

Ill., Chicago

Durand Steel Locker Co., 76 W. Monroe St.

Mass., Framingham

Manufacturing Equipment & Engraving Co.

Mo., St. Louis

Medart Mfg. Co., Fred, De Kalb and Potomac Sts.

Ohio, Cincinnati

Edwards Mfg. Co., 306-336 Eggleston Ave.

Pa., Philadelphia

Darby & Sons Co., Inc., Edward, 233-235 Arch St.

R. I., Providence

Narragansett Machine Co.

Locomotives, Mine and Industrial*Iowa, Davenport*

Davenport Locomotive Works

N. Y., New York City

American Locomotive Works, 30 Church St.

Western Electric Co.

N. Y., Schenectady

General Electric Co.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Lima

Lima Locomotive Corporation

Ohio, Plymouth

Fate Co., J. D.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Koppel

Orenstein-Arthur Koppel Co.

Pa., Philadelphia

Baldwin Locomotive Works

Locomotives, Storage Battery*Ohio, Cleveland*

Lakewood Engineering Co., Station "G"

Locomotives, Trolley*Ohio, Cleveland*

Lakewood Engineering Co., Station "G"

Pa., Philadelphia

Brill Co., J. G.

Logwood Extract Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

Lubricators*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

Crane Co.

Mass., Boston

Crosby Steam Gauge & Valve Mfg. Co.

Mich., Detroit

McCord Mfg. Co., 2587 E. Grand Blvd.

N. Y., Buffalo

Sherwood Mfg. Co., 1710 Elmwood Ave.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Ohio, Cincinnati

Powell Co., The Wm., 2521 Spring Grove Ave.

Pa., Erie

Jarecki Mfg. Co.

Lungmotor*Ill., Chicago*

Life Saving Device Co., 564 W. Monroe St.

Macerating Machinery*Mich., Saginaw*

Werner & Pfeiderer, Inc.

N. Y., New York City

Provost Engineering Corp., 220 Broadway

Machinery (see Specific Headings)**Machines (see Specific Headings)****Magnetic Equipment, Special***Wis., Milwaukee*

Magnetic Mfg. Co., 764 Windlake Ave.

Magnetos*N. Y., New York City*

Bosch Magneto Co., 223-225 W. 46th St.

Magnets, Electro*Ill., Chicago*

Victor Electric Corporation, W. Jackson Blvd.

N. Y., New York City

Western Electric Co., 195 Broadway

Wis., Milwaukee

Dings Magnetic Separator Co., 671 Smith St.

Magnets, High Intensity*Wis., Milwaukee*Dings Magnetic Separator Co., 671
Smith St.**Magnets, Lifting***N. Y., Schenectady*

General Electric Co.

Wis., Milwaukee

Cutler-Hammer Mfg. Co.

Dings-Electro Magnetic Separator Co.

Magnifiers*N. Y., New York City*

Eimer & Amend, 205-211 3d Ave.

*Pa., Philadelphia*Williams-Brown & Earle, 918 Chestnut
St.**Mailers, for Microscopic Slides***N. Y., New York City*

Estes & Co., E. B., 362 5th Ave.

Malting Machinery*Ill., Chicago*

Kaestner & Hecht Co.

*Mo., St. Louis*Aufrechtig Cooper & Iron Works, 900
S. 3d St.*Wis., Watertown*

Dornfield Iron Works

Mandrels*Ohio, Cleveland*

Cleveland Twist Drill Co.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Manganese Dryers*N. Y., New York City*Lamson & Bro., John L., 80 Maiden
Lane**Manhole Fittings***Pa., Coatesville*

Lukens Iron & Steel Co.

Pa., Pottstown

Glasgow Iron Co.

Manifolds, Acid Proof*N. J., Newark*Acid Proof Iron Products Co., 41 Her-
mon St.*N. Y., New York City*

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Manometers*Mich., Detroit*

American Blower Co.

*N. Y., New York City*Greiner & Co., Emil, Fulton and Cliff
Sts.Scientific Utilities Co., Inc., 84 E.
10th St.**Masks, Acid or Fume Proof***Ill., Chicago*Chicago Eye Shield Co., 2300 Warren
Ave.

Life Savings Devices Co.

*N. Y., Elmira*American-La France Fire Engine Co.,
Inc.*N. Y., New York City*Hayward & Co., S. F., 250 W. 54th St.
Multi Metal Separating Screen Co.,
255 W. 19th St.*Ohio, Cincinnati*

Macleod Co., The, 2232-36 Bogen St.

*Pa., Pittsburgh*Draeger Oxygen Apparatus Co., 422
1st Ave.**Masticators***Mich., Saginaw*

Werner & Pfeiderer Co.

N. Y., New York City

Abbe, Paul O., 30 Church St.

Abbe Engineering Co., 220 Broadway

Ohio, Columbus

Jeffrey Mfg. Co.

Matting, Rubber*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Ohio, Cleveland

Mechanical Rubber Co.

*Pa., Philadelphia*Quaker City Rubber Co., 629 Market
St.**Measures, Linear, Accurate***Conn., New Britain*

Stanley Rule & Level Co.

N. J., Hoboken

Keuffel & Esser Co.

N. Y., Troy

Gurley, W. & L. E.

Measuring Instruments (*see Specific Headings*)**Measuring Machines, for Wire***Pa., Reading*

Textile Machine Works

R. I., Providence

New England Butt Co.

Measuring and Mixing Machines*N. Y., New York City*

Conveying Weigher Co., 90 West St.

Media, Culture*Ill., Chicago**Physicians Laboratory Supply Co.,
119-121 N. Washash Ave.**Metal Cloth** (*see Cloth, Metal*)**Metallographic Apparatus***Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

*Palo Co., 92-94 Maiden Lane

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

N. Y., Rochester

Bausch & Lomb Optical Co.

Metallurgical Apparatus (*see Specific Headings*)**Metal Testing Instruments***Pa., Pittsburgh*

*Scientific Materials Co., 711-719 Forbes St.

Metal Treating*N. J., Elizabeth*

American Metal Treatment Co.

Metanitriline Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Metaphenylenediamine Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Metatoluylenediamine Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Meteorological Instruments*N. Y., New York City*

Standard Scientific Co., 147 Waverly Pl.

Meters, Air*Ill., Chicago*

Republic Flow Meters Co., 565 Washington Blvd.

Sargent Steam Meter Co., 2835 Armistage Ave.

Mass., Boston

Bailey Meter Co., 141 Milk St.

Mass., Foxboro

Foxboro Co., Inc.

N. J., Plainfield

New Jersey Meter Co.

N. Y., Rochester

Taylor Instrument Cos.

*Pa., Pittsburgh*Bacharach Industrial Instrument Co.,
422 1st Ave.*Pa., East Pittsburgh*

Westinghouse Electric & Mfg. Co.

Meters, Condensation*Mich., Detroit*

Central Station Steam Co., 710 East Woodbridge St.

Meters, Electric (*see also Ammeters, Voltmeters, Wattmeters*)*Conn., Waterbury*

Bristol Co.

N. J., Newark

Weston Electrical Instrument Co.

N. Y., New York City

Western Electric Co., 195 Broadway

N. Y., Schenectady

General Electric Co.

Pa., Philadelphia

Biddle, James G.

Brown Instrument Co.

Queen-Gray Co.

Pa., Pittsburgh

Westinghouse Electric & Mfg. Co.

Meters, Feed Boiler*N. Y., Buffalo*

Buffalo Meter Co., 2917 Main St.

N. Y., New York City

Worthington Pump & Machinery Corp., 113 Broadway

Meters, Feed Water*Ill., Chicago*

Republic Flow Meters Co., 565 Washington Blvd.

Mich., Detroit

Central Station Steam Co., 710 E. Woodbridge St.

N. J., Camden

Webster & Co., Warren

N. Y., New York City

Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Cincinnati

Cookson Steam Specialty Co., 60-62 Central Ave.

Meters, Flow*Conn., Waterbury*

Bristol Co.

Mass., Boston

Spray Engineering Co., 93 Federal St.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., Buffalo

Buffalo Meter Co., 2913 Main St.

N. Y., Schenectady

General Electric Co.

Meters, Frequency*Conn., Waterbury*

Bristol Co.

Mass., Foxboro

Foxboro Co.

N. J., Newark

Weston Electrical Instrument Co.

Pa., Philadelphia

Thwing Instrument Co.

Meters, Gas*Ind., Ft. Wayne*

Bowser Co., S. F.

Mass., Foxboro

Foxboro Co., Inc.

Mich., Detroit

Precision Instrument Co., Fort and Wayne Sts.

N. Y., Buffalo

Buffalo Meter Co., 2917 Main St.

*N. Y., New York City*American Meter Co., 105 W. 40th St.
Worthington Pump & Machinery Corp., 113 Broadway**Meters, Laboratory Voltage***N. J., Trenton*

Pyroelectric Instrument Co., 148 E. State St.

Meters, Measuring Type*N. J., Trenton*

Pyroelectric Instrument Co., 148 E. State St.

Meters, Oil (see also *Meters, Gasoline*)*Ind., Ft. Wayne*

Bowser & Co., Inc., S. F.

N. Y., Buffalo

Buffalo Meter Co., 2917 Main St.

N. Y., New York City

American Meter Co., 105 W. 40th St.

Worthington Pump & Machinery Corp., 113 Broadway

Pa., Philadelphia

Harrison Safety Boiler Works

Wis., Milwaukee

Cutler-Hammer Mfg. Co.

Meters, Pitot Tube*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

La., New Orleans

Lockett & Co., Ltd., A. M.

Meters, Steam*Ill., Chicago*

Republic Flow Meters Co., 565 Washington Blvd.

Mass., Boston

Bailey Meter Co., 141 Milk St.

N. Y., North Tonawanda

American District Steam Co.

Pa., Philadelphia

Biddle, James G., 1211-13 Arch St.

Pa., East Pittsburgh

Westinghouse Electric Mfg. Co.

Meters, Water*Mass., Foxboro*

Foxboro Co., Inc.

Mass., South Boston

Hersey Mfg. Co.

Mass., Worcester

Union Water Meter Co., 41 Harmon St.

Mich., Detroit

Precision Instrument Co., Fort and Wayne Sts.

N. J., Newark

Gamon Meter Co., 282-296 South St.

N. Y., Buffalo

Buffalo Meter Co., 2917 Main St.

N. Y., New York City

American Meter Co., 105 W. 40th St.

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Schenectady

General Electric Co.

Pa., Philadelphia

Biddle, James G.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Metronomes*N. Y., New York City*

Bernard & Co., F. J., 70 Murray St.

Microammeters

N. Y., New York City
Engelhard, Chas., 30 Church St.

Micrometers

Mass., Ashburnham
Almond Mfg. Co., T. R.
Mass., Athol
Starrell Co., L. S.
N. Y., Syracuse
Syracuse Twist Drill Co.

Microphotographic Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Microscopes

Ill., Chicago
*Daigger & Co., A., 52 W. Kinzie St.
*Gaertner & Co., Wm., 5345 Lake Park Ave.
*Sargent & Co., E. H., 125 W. Lake St.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 211 3d Ave.
King Optical Co., Julius, 10 Maiden Lane
*Palo Co., 90 Maiden Lane
*Scientific Equipment Co., 70 5th Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.
Will Corporation
Ohio, Columbus
*Laboratory Supply Co.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Microscopes, Reading

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.

Microscopical Apparatus

Ill., Chicago
Laboratory Materials Co., 7404 Calumet Ave.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Microtomes

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Leitz, Ernest, 30 E. 18th St.

N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Milk Bottlers' Machinery (see Dairy Machinery)

Milk Can Washing Machines
(see Dairy Machinery)

Milk Drying Machinery

N. Y., Syracuse
Merrell-Soule Co.

Milk Powder Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Milk Sugar Apparatus

N. Y., Buffalo
Devine Co., J. P.

Milk Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Milling Machines

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Millivoltmeters

N. Y., New York City
Engelhard, Chas., 30 Church St.

Mills, Assay

Colo., Denver
Denver Fuel Clay Co.
Mine & Smelter Supply Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., Equitable Bldg.
Beach-Russ Co., 220 Broadway
Pa., Calasauqua
Lehigh Car Wheel & Axle Works

Mills, Attrition

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbé, Paul., 30 Broad St.

Mills, Ball*Colo., Denver*

Denver Fire Clay Co.
 Mine & Smelter Supply Co.

N. Y., New York City

Abbe Engineering Co., 220 Broadway
 Abbé, Paul O., 30 Broad St.
 Beach-Russ Co., 220 Broadway

N. Y., New York City

General Ceramics Co., 50 Church St.
 Hardinge Conical Mill Co., 120 Broadway

Van Emden Co., H., 145 W. 45th St.
 Worthington Pump & Machinery Corp., 115 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Pa., Philadelphia

*Stokes Machine Co., F. J.
 *Thomas Co., Arthur H., W. Washington Sq.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Boring and Turning, Vertical*Wis., Madison*

Gisholt Machine Co.

Mills, Buhr*Colo., Denver*

Colorado Iron Works Co.

Del., Wilmington

Walker & Elliott, Inc.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

Mills, Cage*N. Y., New York City*

Abbé, Paul O., 30 Broad St.

Abbe Engineering Co., 220 Broadway
 Provost Engineering Corp., 220 Broadway

Pa., Muncy

Sprout, Waldron & Co

Mills, Chilian*Colo., Denver*

Colorado Iron Works Co.

Ill., Chicago Heights

Chalmers & Williams Inc.

N. Y., New York City

Worthington Pump & Machinery Corp., 115 Broadway

Ohio, Alliance

Reeves Bros. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills (Chilian) Slow Speed*Cal., Los Angeles*

Lane Mill & Machinery Co., 106 W. 3d St.

Mills, Cinder*N. Y., Brooklyn*

Moussette Co., Inc., O. J., 22-26 Clay St.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Mills, Cogswell*N. Y., New York City*

Brown Co., The A. & F., 79 Barclay St.

Mills, Color (see Mills, Paint)**Mills, Crushing***Cal., Los Angeles*

Lane Mill & Machinery Co.

Colo., Denver

Mine & Smelter Supply Co.

Del., Wilmington

Walker & Elliott, Inc.

Ill., Chicago

Link-Belt Co.

Raymond Brothers Impact Pulverizer

Co., 1311 N. Branch St.

Stroud & Co., E. H., 928 Fullerton Ave.

Williams Patent Crusher & Pulverizer

Co., Old Colony Bldg.

Ill., Chicago Heights

Chalmers & Williams, Inc.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Sturtevant Mill Co., Harrison Sq.

Mich., Detroit

Mead & Co., 19th St and M. C. R. R.

Mich., Saginaw

Werner & Pfeleiderer, Inc.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Abbé, Paul O., 30 Broad St.

Aero Pulverizer Co., 120 Broadway

Buchanan Co., Inc., C. G., 90 West St.

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

N. Y., Utica

Munson Mill Machinery Co., Inc., 405 Broadway

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow, C. O.

Mills, Crushing—cont.*Ohio, Columbus*

Jeffrey Mfg. Co., 904 N. 4th St.

Pa., Calasauqua

Lehigh Car Wheel & Axle Works

Pa., Muncy

Sprout, Waldron & Co.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

*Thomas Co., Arthur H., W. Washington Sq.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Cyanide*Cal., Los Angeles*

Llewellyn Iron Works

Colo., Denver

Colorado Iron Works Co.

Ill., Chicago

Chalmers & Williams, Inc.

N. Y., New York City

Abbé, Paul O., 30 Broad St.

Abbe Engineering Co., 220 Broadway

Worthington Pump & Machinery Corporation

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Drug*Ill., Chicago*

Stroud & Co., E. H., 928 Fullerton Ave.

N. Y., New York City

Abbé, Paul O., 30 Church St.

Abbe Engineering Co., 220 Broadway

Mich., Saginaw

Werner & Pfeiderer, Inc.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Pa., Muncy

Sprout, Waldron & Co.

Pa., Philadelphia

Stokes Machine Co., J. H.

Whitall-Tatum Co.

Mills, Dye (see Mills, Paint)**Mills, Emery***Mass., Boston*

Sturtevant Mill Co.

Mich., Saginaw

Werner & Pfeiderer, Inc.

Mills, Graphite*Ill., Chicago*

Stroud & Co., E. H., 928 Fullerton Ave.

N. Y., Utica

Munson Mill Machinery Co., Inc., 405 Broadway

Mills, Grinding (see Mills, Crushing)**Mills, Hammer***Mass., Boston*

Sturtevant Mill Co., Harrison Sq.

N. Y., New York City

Abbé, Paul O., 30 Broad St.

Beach-Russ Co., 220 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Huntington*Ill., Chicago Heights*

Chalmers & Williams, Inc.

N. Y., New York City

Worthington Pump & Machinery

Corp., 115 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Jar*N. Y., New York City*

Abbé, Paul O., 30 Broad St.

Ohio, Cincinnati

Day Co., J. H., 1147-1149 Harrison Ave.

Pa., Philadelphia

Stokes Machine Co., F. J.

Mills, Laboratory (see Laboratory Apparatus and Equipment)**Mills, Ore (see Mills, Stamp)****Mills, Paint***Ill., Chicago*

Raymond Bros. Impact Pulverizer

Co., 1318 N. Branch St.

Stroud & Co., E. H., 928 Fullerton Ave.

Williams Patent Crusher & Pulverizer

Co., Old Colony Bldg.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

N. Y., Brooklyn

Buchanan Co., C. G., 90 West St.

Moussette Co., O. J.

N. Y., New York City

Abbé, Paul O., 30 Church St.

Abbe Engineering Co., 220 Broadway

K. B. Pulverizer Co., Inc., 86 Worth St.

Ohio, Cincinnati

Day Co., J. H., 1149 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O., French and Columbus Sts.

Mills, Pebble (see Mills, Ball)**Mills, Pulverizing (see Mills, Crushing)**

Mills, Quartz*Cal., Los Angeles*

Lane Mill Machinery Co.

Llewellyn Iron Works

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Worthington Pump & Machinery

Corp., 115 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Ring Roll*Mass., Boston*

Sturtevant Mill Co.

Mills, Roller*Ill., Chicago*

Raymond Bros. Impact Pulverizer

Co., 1318 N. Branch St.

Stroud & Co., E. H., 928 Fullerton Ave.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Ohio, Cincinnati

Day & Co., J. H., 1144 Harrison Ave.

Pa., Muncy

Sprout, Waldron & Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Roller, with Air Separation*Ill., Chicago*

Raymond Bros. Impact Pulverizer Co.,

1327 N. Branch St.

Mills, Sampling (see Mills, Stamp)**Mills, Stamp***Cal., Los Angeles*

Llewellyn Iron Works

Colo., Denver

Colorado Iron Works Co.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

N. Y., New York City

Mine & Smelter Supply Co., 42 Broad-

way

Worthington Pump & Machinery

Corp., 115 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mills, Tube*Cal., San Francisco*

Union Iron Works Co.

Colo., Denver

Colorado Iron Works Co.

N. Y., New York City

Abbé, Paul O., 30 Church St.

Abbe Engineering Co., 220 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.Worthington Pump & Machinery
Corp., 115 Broadway*Ohio, Alliance*

Reeves Bros. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Mineral Filler*N. Y., New York City*

Celite Products Co., 11 Broadway

N. Y., Niagara Falls

Acheson Graphite Co.

Mineralogical Apparatus*Ill., Chicago*

Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52 W. Kinzie St.

Mo., St. Louis

*Heil Chemical Co., Henry, 210-214 S. 4th St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Mining Machinery*Cal., Los Angeles*

Llewellyn Iron Works

Cal., Oakland

Union Iron Works

Cal., San Francisco

Price Pump & Engine Co., G. W., 33 Stevenson St.

Union Iron Works Co., 214 Spear St.

Colo., Denver

Colorado Iron Works Co.

Dorr Co., 1009 17th St.

Mine & Smelter Supply Co.

Ill., Chicago

Goodman Mfg. Co., Halstead St. and 48th Pl.

Link-Belt Co., W. 39th St. and Stewart Ave.

Standard Diamond Drill Co., First National Bank Bldg.

Sullivan Machinery Co., People's Gas Bldg.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

Mo., Springfield

Union Iron Works Co.

N. Y., New York City

Dorr Co., 101 Park Ave.

Ingersoll-Rand Co., 11 Broadway

Mine & Smelter Supply Co., 42 Broad-

way

Worthington Pump & Machinery
Corp., 115 Broadway

Mining Machinery—cont.

Ohio, Cleveland
Wellman-Seaver-Morgan Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mining Machinery, Electrical

Ill., Chicago
Goodman Mfg. Co., Halstead St. and 48th Pl.
Morgan-Gardner Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Mixers, Aniline Colors (*see Mixers, Colors*)**Mixers, Artificial Silk**

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Asbestos Compounds

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Atmospheric

Ill., Rockford
Eclipse Fuel Engineering Co.

Mixers, Baking Powder

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Mixers, Batch

Del., Wilmington
Walker & Elliott, Inc.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Ross & Sons Co., Charles, 146 Classon Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Mixers, Brine Jacketed

Ill., Batavia
Sperry & Co., D. R.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Mixers, Carbon

Del., Wilmington
Walker & Elliott, Inc.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Lockland
Gedge-Gray Co.

Mixers, Cement

Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. N.
Ohio, Lockland
Gedge-Gray Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Smith Co., T. L.

Mixers, Chemical

Colo., Denver
Colorado Iron Works Co.
Dorr Co., The
Mine & Smelter Supply Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Md., Baltimore
Bartlett-Hayward Co.
Codd Co., E. J.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Holmes & Blanchard Co.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Muskegon
Muskegon Boiler Works, Eighth St.

Mixers, Chemical—cont.*Mich., Saginaw*

Werner & Pfeiderer, Inc.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*N. Y., Albany*Townsend Furnace & Machine Shop
Co., Broadway and Rensselaer St.*N. Y., Brooklyn*Improved Appliance Co., 10 High St.
Houchin-Aiken Co., 113 53d St.
Johnson Co., John, 37th and 2d Ave.*N. Y., Buffalo*

Sowers Mfg. Co., 1300 Niagara St.

*N. Y., New York City*Abbe Engineering Co., 220 Broadway
Abbé, Paul O., 30 Broad St.
Dorr Co., 101 Park Ave.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th
Ave.

Lungwith, Emil E., 90 West St

N. Y., Rochester

Pfaudler Co.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Lockland

Gedge-Gray Co.

*Pa., Philadelphia*Stokes Machine Co., F. J., 17th and
Cambria Sts**Mixers, Clay***Ill., Chicago*Williams Patent Crusher & Pulverizer
Co., Old Colony Bldg.*Mass., Boston*

Sturtevant Mill Co., Harrison Sq.

Md., Baltimore

Poole Engineering & Machine Co.

Mich., Saginaw

Werner & Pfeiderer, Inc.

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

Ohio, Bucyrus

American Clay Machinery Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Mixers, Color*Mass., Fall River*

Scott & Co., Ernest

*Mich., Saginaw*Werner & Pfeiderer Co., 1260 N. Ni-
agara St.*N. Y., Buffalo*

Sowers Mfg. Co.

*N. Y., New York City*Abbé, Paul O., 30 Church St.
Brown Co., The A. & F., 79 Barclay St.
Machinery Utilities Co., 501 5th Ave.*Ohio, Cleveland*

Bartlett & Snow Co., C. O.

Ohio, Lockland

Gedge-Gray Co.

Mixers, Concrete*Ill., Chicago*Fairbanks-Morse & Co., 900 S. Wabash
Ave.*Mich., Jackson*

Knickerbocker Co.

N. J., Dunellen

Ransome Concrete Machinery Co.

N. Y., New York City

Conveying Weigher Co., 90 West St.

*Ohio, Cleveland*Bartlett & Snow Co., C. O.
Lakewood Engineering Co.*Ohio, Columbus*

Jeffrey Mfg. Co.

Pa., Pittsburgh

Standard Scale & Supply Co.

*Wis., Milwaukee*Chain Belt Co., 734 Park St.
Milwaukee Concrete Mixer Co.
Smith Co., T. L.**Mixers, Cork Compounds***Mich., Saginaw*Werner & Pfeiderer Co., 1260 N. Ni-
agara St.**Mixers, Crayon Compositions***Mich., Saginaw*Werner & Pfeiderer Co., 1260 N. Ni-
agara St.**Mixers, Crucible Paste***Mich., Saginaw*Werner & Pfeiderer Co., 1260 N. Ni-
agara St.**Mixers, Dry***Del., Wilmington*

Walker & Elliott, Inc.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

*Mich., Saginaw*Werner & Pfeiderer Co., 1260 N. Ni-
agara St.*N. Y., Brooklyn*

Moussette Co., Inc., O. J., 26 Clay St.

*N. Y., New York City*Abbé, Paul O., 30 Church St.
Machinery Utilities Co., Inc., 501 5th
Ave.*Ohio, Cincinnati*

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Lockland

Gedge-Gray Co.

*Pa., Pittsburgh*Standard Scale & Supply Co., 1631
Liberty Ave.

Mixers, Dye (*see Mixers, Color*)**Mixers, Dynamite***Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Emery Compositions*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Fertilizer*Del., Wilmington*

Walker & Elliott, Inc.

Ill., Chicago

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mass., Boston

Bradley Pulverizer Co.

Sturtevant Mill Co., Harrison Sq.

Md., Baltimore

Poole Engineering & Machine Co.

Mich., Saginaw

Werner & Pfeiderer Co., 1260 N. Niagara St.

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Mixers, Gas*Mich., Detroit*

Detroit Heating & Lighting Co.

R. I., Providence

General Fire Extinguisher Co.

Mixers, Glass Enameled*N. Y., Rochester*

Pfaudler Co.

Ohio, Elyria

Elyria Enameled Products Co.

Mixers, Granulation*Mich., Detroit*

Colton Co., Arthur

Mixers, Graphite*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Jacketed*Pa., Philadelphia*

Stokes Machine Co., F. J., 17th and Cambria Sts.

Mixers, Kligerit*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Lead*Mich., Saginaw*

Werner & Pfeiderer Co., Inc., 1260 N. Niagara St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Mixers, Lime*Mich., Saginaw*

Werner & Pfeiderer Co., Inc., 1260 N. Niagara St.

Ohio, Lockland

Gedge-Gray Co.

Mixers, Linoleum*Mich., Saginaw*

Werner & Pfeiderer Co., Inc., 1260 N. Niagara St.

Mixers, Liquid*Del., Wilmington*

Walker & Elliott, Inc.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Mich., Saginaw

Werner & Pfeiderer Co., 1260 N. Niagara St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Brooklyn

Improved Appliance Co., 10 High St.

Johnson Co., John, 37th and 2d Ave.

N. Y., New York City

Abbé, Paul O., 30 Church St.

Brown Co., The A. & F., 79 Barclay St.

Machinery Utilities Co., Inc., 501 5th Ave.

N. Y., Rochester

Pfaudler Co.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Lockland

Gedge-Gray Co.

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Mixers, Mass*Del., Wilmington*

Walker & Elliott, Inc.

Mich., Saginaw

Werner & Pfeiderer Co., 1260 N. Niagara St.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Lockland

Gedge-Gray Co.

Mixers, Nitrocellulose

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Paint (see *Paint Machinery*)**Mixers, Paste**

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

N. Y., Buffalo
Sowers Mfg. Co.

N. Y., New York City
Abbé, Paul O., 30 Church St.

Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Ohio, Lockland
Gedge-Gray Co.

Mixers, Pill Masses

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Putty

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Rotary

N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.

Mixers, Rubber

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Rubber Cement

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Rubber Solution

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Smokeless Powder

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Steam Jacketed

Ill., Batavia
Sperry & Co., D. R.

Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

N. Y., Buffalo
Sowers Mfg. Co., 1298-1310 Niagara St.

N. Y., New York City
Abbé, Paul O., 30 Church St.

Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland
Bartlett & Snow Co., C. O.

Ohio, Lockland
Gedge-Gray Co.

Pa., Philadelphia
Stokes Machine Co., F. J.

Mixers, Storage Battery Masses

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Tablet Masses

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Mixers, Tank

Del., Wilmington
Walker & Elliott, Inc.

Mich., Saginaw
Werner & Pfeiderer Co., Inc.

N. Y., Rochester
Pfaudler Co.

Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Ohio, Lockland
Gedge-Gray Co.

Mixers, Turbine

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave

Mixers, Vacuum

Mass., Fall River
Scott & Co., Ernest

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Abbé, Paul O., 30 Church St.

Mixers, Viscose

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St..

Mixers, Water

Mass., Framingham
Manufacturing Equipment & Engraving Co.

Moisteners (*see also Air Moistening Apparatus*)

Mass., Boston
Sturtevant Co., B. F.
Ohio, Cambridge
Cambridge Glass Co.

Moisture Regaining Equipment

N. Y., New York City
Carrier Engineering Corporation, 39
Cortlandt St.

Moisture Testers

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.

Molding Sheet Plastics

N. J., Bloomfield
Condensite Co. of America

Molds

Ill., Chicago
Redmanol Chemical Products Co., 636
W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.
N. Y., Niagara Falls
Acheson Graphite Co.
Pa., Erie
Continental Rubber Works

Monitors

Pa., Mechanicsburg
Scientific Instrument & Electrical Machine Co.

Montejus

Ind., Fort Wayne
Western Gas Construction Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Mortars

Ill., Chicago
Sperry & Co., D. R.
England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.

*Eimer & Amend, 3d Ave., 18th to 19th
Sts.

N. Y., Rochester
Will Corporation
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Cambridge Glass Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Mortars, Tool Steel

Pa., Philadelphia
Stokes Machine Co., F. J.
Pa., Pittsburgh
*Scientific Materials Co., 711 Forbes St.

Motor Generator Sets

N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leist Electric Co.
Ohio, Springfield
Robbins & Meyers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Motors, Electric

Ill., Chicago
Fairbanks, Morse & Co.
Victor Electric Corporation, 236 S.
Robey St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. J., Ampere
Crocker-Wheeler Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th
Ave.
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leist Electric Co.
Triumph Electric Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Springfield
Robbins & Myers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Cutler-Hammer Co.

Moulds*Colo., Denver*

Colorado Iron Works Co.

N. Y., New York City

*Bernard & Co., F. J., 70 Murray St.

*Pa., Pittsburgh*Rosedale Foundry & Machine Co.,
Columbus and Preble Aves.**Moulds, Bullion***Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop St.**Moulds, Glass***N. J., Vineland*Doerr Glass Co., Peach St. and Boule-
vard**Moulds, Ingot***Colo., Denver*

Colorado Iron Works Co.

England, Deepfields, nr. Bilston, Staffs

Cannon Iron Foundries, Ltd.

Moulds, Matte*Colo., Denver*

Colorado Iron Works Co.

Muffles*Cal., San Francisco**Braun-Knecht-Heimann Co., 584 Mis-
sion St.*Colo., Denver*

Denver Fire Clay Co.

Mine & Smelter Supply Co.

Mass., Worcester

Norton Co.

N. J., Jersey City

Dixon Crucible Co., Joseph

N. J., Newark

Baker & Co., Inc.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

Sidco Co. of America, Inc., 37 Murray
St.

Thermal Syndicate, Ltd., 50 E. 41st St.

N. Y., Niagara Falls

Carborundum Co.

Acheson Graphite Co.

International Acheson Graphite Co.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Muffles, Graphite*N. J., Jersey City*

Dixon Crucible Co., Joseph

Muffles, Platinum*N. J., Newark*

Bishop & Co., Inc.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Muffles, Refractory*Pa., Pittsburgh*Crucible Steel Co. of America, 30th
and Smallman Sts.**Nail Machinery, Wire***Mass., Worcester*Sleeper & Hartley, Inc., 68 Prescott
St.**Naphtha Coal Tar Apparatus***(see Naphthalene Plants)***Naphthalene Plants***Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts-
St.

Lummas Co., Walter E., 173 Milk St.

N. Y., Buffalo

Devine Co., J. P.

Buffalo Foundry & Machine Co.

Johnson Co., John, 37th St. and 2d Ave.

**Naphthalene Crystals Appa-
ratus***N. Y., Buffalo*

Buffalo Foundry & Machine Co.

Devine Co., J. P.

Johnson Co., John, 37th St. and 2d Ave.

**Naphthalene Dinitro Appa-
ratus***N. Y., Buffalo*

Buffalo Foundry & Machine Co.

Devine Co., J. P.

Johnson Co., John, 37th St. and 2d Ave.

**Naphthalene Mono and Bi-
Nitro Apparatus***N. Y., Buffalo*

Buffalo Foundry & Machine Co.

Devine Co., J. P.

Johnson Co., John, 37th St. and 2d Ave.

**Naphthalene Mononitro Ap-
paratus***N. Y., Buffalo*

Buffalo Foundry & Machine Co.

Devine Co., J. P.

N. Y., Brooklyn

Johnson Co., John, 37th St. and 2d Ave.

Naphthol, Beta, Plants*N. Y., Buffalo*

Buffalo Foundry & Machine Co.

Devine Co., J. P.

N. Y., New York City

Duriron Castings Co., 90 West St.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Valley Iron Works

Needles*N. Y., Brooklyn*

Howard & Morse, 1197-1211 De Kalb Ave.

Netting*Ohio, Cleveland*

Tyler Co., The W. S., Superior Ave. and 36th St.

Nigrosine Apparatus*N. Y., Buffalo*

Devine Co., J. P.

Nitraniline, Para, Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

Nitrators*Mass., Boston*

American Tool & Machine Co., 10 High St.

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. J., Carteret

Wheeler Condenser & Engineering Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Devine Co., J. P., 1372 Clinton St.

N. Y., New York City

Bethlehem Foundry & Machine Co., 149 Broadway

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Machinery Utilities Co., Inc., 501 5th Ave.

Stevens Brothers, 149 Broadway

N. Y., Olean

Luther Mfg. Co., 133 Railroad Ave.

N. Y., Rochester

Pfaudler Co., The

Pa., Philadelphia

Fletcher Works

Stokes Machine Co., F. J., 17th and Cambria Sts.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Valley Iron Works

Nitrobenzol Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Devine Co., J. P.

N. Y., New York City

Duriron Castings Co., 90 West St.

Kalbperry Corp., 31 Union Square, W.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Valley Iron Works

Nitrocellulose Plants*Mass., Boston*

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

N. Y., New York City

General Ceramics Co., 50 Church St.

Kalbperry Corp., 31 Union Sq., W.

N. Y., Rochester

Pfaudler Co., The

Nitrogen Determination Apparatus (see *Nitrometers*)**Nitroglycerin Machinery***Mich., Saginaw*

Werner & Pfeiderer Co., Inc.

N. Y., Olean

Luther Mfg. Co., 133 Railroad Ave.

Nitrometers*England, Birmingham*

Belchers (Standley) & Mason, Ltd., Church St.

Ill., Chicago

Central Scientific Co., 460 E. Ohio St.

Mo., St. Louis

*Heil Chemical Co., Henry, 210-214 S. 41st St.

N. Y., New York City

*Bernard & Co., F. J., 70 Murray St.

Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

N. Y., Rochester

Will Corporation

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

Scientific Materials Co., 719 Forbes St.

Nitrotoluol Plants*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.*Mass., Fall River*

Scott & Co., Ernest

*N. Y., Buffalo*Buffalo Foundry & Machine Co.
Devine Co., J. P.**Nozzles, Acid***Ill., Chicago*

Star Brass Works, 3114-22 Carroll Ave.

Mass., Boston

Callahan Co., C., 127 Purchase St.

*N. Y., Buffalo*Buffalo Forge Co.
Carrier Air Conditioning Co.*N. Y., New York City*General Ceramics Co., 50 Church St.
Hayward & Co., S. F., 39 Park Pl.*Ohio, Akron*

U. S. Stoneware Co.

Nozzles, Aerating*Mass., Boston*

Spray Engineering Co., 93 Federal St.

N. Y., Buffalo

Buffalo Forge Co.

*N. Y., New York City*Carrier Engineering Corporation, 39
Cortlandt St.*Pa., Philadelphia*Braemer Air Conditioning Corpora-
tion, LaFayette Bldg.**Nozzles, Atomizing***Ill., Chicago*Star Brass Works, 3114-3122 Carroll
Ave**Nozzles, Blast***N. Y., Buffalo*

Buffalo Forge Co.

*Pa., Philadelphia*Schutte & Koerting Co., 12th and
Thompson Sts.**Nozzles, Fire***Mass., Boston*Morse & Son, Inc., Andrew J., 221
High St.**Nozzles, Graphite***Pa., Philadelphia*

Seidel, Inc., R. B., 1322 Callowhill St.

Nozzles, Spray*Ill., Chicago*Star Brass Works, 3114-3120 Carroll
Ave.*Mass., Boston*

Spray Engineering Co., 93 Federal St.

Mass., Cambridge

Boston Woven Hose & Rubber Co.

N. Y., Buffalo

Buffalo Forge Co.

*N. Y., New York City*American Spray Co., 26 Cortlandt
St.Carrier Air Conditioning Co., 39
Cortlandt St.

Cooling Tower Co., Inc., 17 John St

Duriron Castings Co., 90 West St.

U. S. Rubber Co., 1790 Broadway

N. Y., Seneca Falls

Goulds Mfg. Co.

*Pa., Philadelphia*Braemer Air Conditioning Corpora-
tion, LaFayette Bldg.

Fletcher Works

Schutte & Koerting Co., 12th and
Thompson Sts.**Odometers***Conn., Hartford*

Veeder Mfg. Co.

N. J., Hoboken

Keuffel & Esser Co.

Ohmmeters (see *Electric Measuring
Instruments*)**Oil Bleaching Plants***N. Y., Brooklyn*Johnson Co., John, 37th St and 2d
Ave.**Oil Burning Equipment***Cal., San Francisco*

Johnson Co., S. T., 1337 Mission St.

*Ill., Chicago*National Supply Co., 416 W. Grand
Ave.*La., New Orleans*

Lockett & Co., Ltd., A. M.

*Md., Baltimore*Meade & Co., Richard K., 608 Law
Bldg.*Mass., Springfield*

Gilbert & Barker Mfg. Co.

N. Y., Long Island City

Anthony Co., 138 West Ave.

*N. Y., New York City*Best, Inc., W. N., 11 Broadway
Quigley Furnace Specialties Co., Inc.,
26 Cortlandt St.*Ohio, Cincinnati*

Macleod Co., 2232 Bogen St.

Oil Filters (*see Filters, Oil*)**Oil Flotation Ore Dressing Machinery**

Canada, Cobalt, Ontario
Groch Centrifugal Flotation, Ltd.

Oil Handling Devices

Ft. Wayne, Ind.
Bowser & Co., Inc., S. F.

Oil Refinery Equipment

Del., Wilmington
Pusey & Jones
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mo., St. Louis
Brecht Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Pittsburgh
Aluminum Co. of America
Pa., Sharon
Petroleum Iron Works Co.
Texas, Dallas
Murray Co.

Oil Testing Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
Olsen Testing Machine Co., Tinius,
500 N. 12th St.
Riehle Bros., Testing Machine Co.,
1424 N. 9th St.
*Thomas Co., Arthur H., W. Washing-
ton Sq.
Pa., Pittsburgh
Scientific Materials Co., 711 Forbes

Oilers, Engine, Machine

Conn., Branford
Malleable Iron Fittings Co.

Oilers, Gasoline Engine

Conn., Branford
Malleable Iron Fittings Co.

Oilers, Multiple Feed and Gravity

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Optical Instruments

Mass., Southbridge
American Optical Co.
N. Y., Rochester
Bausch & Lomb Optical Co.

Ore Machinery

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co.
Mine & Smelter Supply Co.
Ill., Chicago Heights
Chalmers & Williams, Inc.
Ill., Chicago
Link-Belt Co.
N. Y., New York City
Dorr Co., 101 Park Ave.
Mine & Smelter Supply Co., Inc., 42
Broadway
Robins Conveying Belt Co., Park Row
Bldg.
Worthington Pump & Machinery
Corp., 115 Broadway
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Wellman-Seaver-Morgan Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Ore Roasting Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law
Bldg.
N. Y., New York City
General Chemical Co., 25 Broad St.
Kalpherry Corp., 31 W. Union Sq.
N. Y., Schenectady
General Electric Co.

Ore Separators

Mass., Boston
Huff Electrostatic Separator Co., 60
India St.
Sturtevant Mill Co., Harrison Sq.
N. Y., Troy
Magnetic Separator Co.

Ore Washing Machinery*Colo., Denver*

Colorado Iron Works Co.

N. Y., New York City

Dorr Co., 101 Park Ave.

Worthington Pump & Machinery Corp., 115 Broadway

Orsat Apparatus*Mich., Detroit*

Precision Instrument Co., Fort and Wayne Sts.

Oven Machinery, Coke*Ohio, Cleveland*

Wellman-Scaver-Morgan Co.

Ovens, Annealing*Ill., Harvey*

Whiting Foundry Equipment Co.

N. Y., Schenectady

General Electric Co

Ovens, Baking*Ill., Chicago*

*Central Scientific Co.

Mich., Detroit

Detroit Heating & Lighting Co.

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. J., Newark

Thermo Electric Instrument Co

N. Y., Brooklyn

Gehrich Indirect Heat Oven Co., Inc., 60-63 Franklin Ave.

Improved Appliance Co., 413-419 Kent Ave.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

N. Y., Schenectady

General Electric Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Square

Pa., Pittsburgh

Hagan Co., George J., 401 People's Bank Bldg.

Ovens, By-Product Coke (see Coke*Ovens, Retort)***Ovens, Constant Temperature, Freas Patents***N. J., Newark*

Thermo Electric Instrument Co.

N. Y., New York City

Eimer & Amend, 205-211 3d Ave.

Ovens, Core*Ill., Chicago*

Chicago Surgical & Electrical Co., 314 W. Superior St.

Drying System Inc., 320 Michigan Ave.

Physicians Laboratory Supply Co., 1234 Marshall Field Annex Bldg.

Ill., Harvey

Whiting Foundry Equipment Co.

Mich., Detroit

Detroit Heating & Lighting Co.

Mich., Saginaw

Werner & Pfleiderer, Inc.

N. J., Garwood

Beckley Perforating Co., North Ave.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Brooklyn

Gehrich Indirect Heat Oven Co., 60 Franklin Ave.

Improved Appliance Co., 413 Kent Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 28 Winchester Ave.

N. Y., New York City

*Eimer & Amend, 3d Ave., 18th to 19th Sts.

Gordon Dryer Corporation, 39 Cortlandt St.

Scientific Utilities Co., Inc., 84 E. 10th St.

Pa., Coatesville

Coatesville Boiler Works

Pa., Philadelphia

Philadelphia Textile Machinery Co.

Ovens, Dispatch Electric*N. Y., New York City*

Palo Co., 90 Maiden Lane

Ovens Draw Plate*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Ovens, Drying (see Ovens, Core)**Ovens, Drying, Water Bath***N. Y., Rochester*

Wilmot Castle Co., 800 St. Paul St.

Ovens, Electric, Laboratory*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

N. J., Newark

Thermo Electric Instrument Co., 8 Johnson St.

Ill., Chicago

*Sargent & Co., E. H., 125-127 W. Lake St.

N. Y., New York City

Electric Heating Apparatus Co., 25 Church St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

*Eimer & Amend, 205-211 3d Ave.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

N. Y., Schenectady

*General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Ovens, Enameling*Mich., Detroit*

Detroit Heating & Lighting Co.

*N. Y., Brooklyn*Gehrich Indirect Heat Oven Co.,
Inc., 60 Franklin Ave.*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Quigley Furnace Specialties Co., Inc.,
25 Church St.*N. Y., New York City*American Gas Furnace Co., 24 John
St.

Quigley Furnace Specialties Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

*Pa., Pittsburgh*Hagan Co., George J., 401 People's
Bank Bldg.**Ovens, Fuel Gas***N. Y., New York City*American Gas Furnace Co., 24 John
St.Connelly Iron Sponge & Governor Co.,
228 Fulton St.Quigley Furnace Specialties Co., Inc.,
25 Church St.**Ovens, Gas***Mich., Detroit*

Detroit Heating & Lighting Co.

*N. Y., Brooklyn*Gehrich Indirect Heat Oven Co.,
Inc., 60 Franklin St.*N. Y., New York City*American Gas Furnace Co., 24 John
St.**Ovens, Japanning** (*see Ovens, Bak-
ing; Ovens, Enameling*)**Ovens, Laboratory***Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie
St.*Ill., Chicago**Sargent & Co., E. H., 125-127 W. Lake
St.*Mich., Saginaw*Werner & Pfleiderer Co., 1260 N. Ni-
agara St.*N. Y., Brooklyn*Gehrich Indirect Heat Oven Co.,
Inc., 60 Franklin Ave.*N. Y., New York City*

*Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th
St.*N. Y., Rochester*

Wilmot Castle Co., 800 St. Paul St.

Pa., Philadelphia

*Boeckel & Co., Wm., 518 Vine St.

*Thomas Co., Arthur H., W. Washing-
ton Sq.**Ovens, Lacquering** (*see Ovens, Bak-
ing, Ovens, Enameling*)**Ovens, Paraffin***Ill., Chicago*Chicago Surgical & Electrical Co., 314
W. Superior St.**Ovens, Vacuum***Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

Mojonnier Bros. Co., 833 W. Jackson
Blvd.*Mass., Fall River*

Scott & Co., Ernest, P. O. Box 259

Mich., Saginaw

Werner & Pfleiderer Co., Inc.

N. J., Newark

Thermo Electric Instrument Co.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Pa., Philadelphia**Thomas Co., Arthur H., W. Washing-
ton Sq.*N. J., Newark*

Thermo Electric Instrument Co.

Oxyacetylene Apparatus*Ill., Chicago*Burdett Mfg Co., St. Johns Court and
Fulton St.

Liquid Carbonic Co.

Ind., Indianapolis

Prest-O-Lite Co.

*Md., Baltimore*Milburn Co., Alexander, 1420-28 W.
Baltimore St.*Mass., Boston*

General Welding & Equipment Co.

N. Y., New York City

Air Reduction Co., Inc., 120 Broadway

Linde Air Products Co., 42d St. Bldg.

K. G. Welding & Cutting Co., Inc.,
556 W. 34th St.*Ohio, Cincinnati*

Macleod Co., Bogen St.

Oxyacetylene Gauges (*see Gauges,
Oxyacetylene*)**Oxyacetylene Supplies***Mass., Boston*

Waterhouse Mfg. Co.

Oxy-Acetylene Cutting and Welding Equipment

Ill., Chicago

Linde Air Products Co.

• Oxweld Acetylene Co.

Ind., Indiana

Prest-O-Lite Co.

N. Y., New York City

Air Reduction Sales Co., 120 Broadway

Oxygen Apparatus

N. Y., New York City

Electrolytic Oxy-Hydrogen Laboratories, 15 William St.

Ohio, Cleveland

Ohio Chemical & Mfg. Co.

Oxygen Reviving Apparatus

N. Y., Elmira

American-La France Fire Engine Co., Inc.

N. Y., New York City

Hayward & Co., S. F., 250 W. 54th St.

Oxygen Testing Apparatus

N. Y., New York City

International Oxygen Co., 115 Broadway

Oxygenators

N. Y., Buffalo

Oxygenator Co., Mooney Bldg.

Oxyhydrogen Gas Generating Apparatus

Ill., Chicago

Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Oxyhydrogen Generators

N. J., Harrison

Shriver & Co., T., 860 Hamilton St.

N. Y., New York City

Electrolytic Oxyhydrogen Laboratories, Inc., 15 William St.

Oxyhydrogen Welding Equipment

Ill., Chicago

Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Ozonators

N. Y., New York City

Schwneker, Inc., W. M., 340-344 E. 92d St.

Package Filling Machinery

N. J., Newark

Automatic Weighing Machine Co.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Package Packers

N. Y., New York City

Abbé, Paul O., 30 Broad St.

Packages, Steel

Ohio, Defiance

American Steel Package Co.

Packing, Acid Proof

N. Y., New York City

General Ceramics Co., 50 Church St.

N. C., Charlotte

Chemical Construction Co.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Packing, Ammonia

Conn., Bridgeport

Canfield Rubber Co.

Mass., Boston

Boston Belting Corporation

Mass., Chelsea

Revere Rubber Co.

N. Y., New York City

Gutta Percha & Rubber Mfg. Co.

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Pa., Philadelphia

Quaker City Rubber Co.

Wis., Milwaukee

Vilter Mfg. Co.

Packing, Asbestos

Mass., Boston

Walworth Mfg. Co.

N. J., Manville

Johns-Manville Co.

N. Y., New York City

Asbestos Textile Co., Woolworth Bldg.

Dominion Asbestos & Rubber Corporation, 151 Nassau St.

Ohio, Lockland

Carey Co., Philip

Pa., Ambler

Keasby & Mattison Co.

Packing, Fibre

Del., Wilmington

American Vulcanized Fibre Co.

Delaware Hard Fibre Co.

Mass., Boston

Fibre Finishing Co., 27 State St.

Packing, High Pressure*Mass., Chelsea*

Revere Rubber Works

N. Y., Manville

Johns-Manville Co.

*N. Y., New York City*Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Co., 154
Nassau St

Sarco Co., Inc., Woolworth Bldg.

Schieren Co., Charles A., Schieren
Bldg.*Ohio, Akron*

Goodrich Co., B. F.

Pa., Philadelphia

Quaker City Rubber Co.

Packing, Hydraulic (*see Packing,
High Pressure; Packing, Leather;
Packing, Rubber*)**Packing, Leather and Rawhide***Mass., Worcester*

Graton & Knight Mfg. Co.

*N. Y., New York City*Schieren & Co., Chas. A., 30-38 Ferry
St.**Packing Metallic***Mass., Boston*

Boston Belting Corporation

Mass., Chelsea

Revere Rubber Co.

*N. Y., New York City*Huhn Metallic Packing Co., Wool
worth Bldg

Magnolia Metal Co., 115 Bank St

Sarco Co., Inc., Woolworth Bldg

Packing, Oil Proof*N. Y., New York City*Dominion Asbestos & Rubber Corpora-
tion 154 Nassau StGutta Percha & Rubber Mfg. Co. 127
Duane St**Packing, Rod***Ohio, Akron*

Goodrich Co., B. F.

*Pa., Philadelphia*Quaker City Rubber Co., 629 Market
St.**Packing, Rubber***Mass., Boston*

Boston Belting Co.

*N. Y., New York City*Gutta Percha & Rubber Mfg. Co., 127
Duane St.

Jenkins Brothers, 80 White St.

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Goodyear Tire & Rubber Co.

Pa., Erie

Continental Rubber Works

*Pa., Philadelphia*Quaker City Rubber Co., 629 Market
St.**Packing, Sheet** (*see also Packing,
Rubber*)*N. Y., New York City*Johns-Manville Co., H. W., Madison
Ave. and 41st St.U. S. Indestructible Gasket Co., 50
Church St.*Ohio, Lockland*

Carey Mfg. Co., Philip

Pa., Franklin

Franklin Mfg. Co.

Pails, Fibre*N. Y., New York City*

Cordley & Hayes, 7 Leonard St.

Paint Machinery*Ill., Bataria*

Sperry & Co., D. R.

*Mass., Boston*Holmes & Blanchard Co., 31 State St.
Spray Engineering Co., 93 Federal St.*Mich., Saginaw*Werner & Pfeiderer Co., 1260 N. Ni-
agara St.*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Sowers Mfg. Co.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Pa., Muncy

Sprout, Waldron & Co.

Palau Ware*N. Y., New York City*

*Eimer & Amend, 205-211 3d Ave.

Pans, Acid Crystallizing*N. Y., New York City*

General Ceramics Co., 50 Church St.

Ohio, East Akron

Knight, Maurice A.

Pans, Acidulating*Del., Wilmington*

Walker & Elliott, Inc.

Ind., Aurora

Stedmans Foundry & Machine Works

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight Maurice A

Pans, Amalgamating*Colo., Denver*Colorado Iron Works Co., 33d and
Wynkoop St.*England, Deepfields, nr. Bilston, Staffs*
Cannon Iron Foundries, Ltd.*N. Y., New York City*Mine & Smelter Supply Co., Inc., 42
Broadway
Worthington Pump & Machinery
Corp., 115 Broadway*Ohio, Akron*

U S Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pans, Boat*England, Widnes*

Widnes Foundry Co., Ltd., The

Pans, Calorimeter*N. J., Newark*American Platinum Works, 225 N. J.
R R Ave.**Pans, Cast Iron***Ala., Birmingham*

American Cast Iron Pipe Co

Del., Wilmington

Walker & Elliott, Inc.

Mass., Boston

Badger & Sons Co., E. B.

N. J., Burlington

United States Cast Iron, Pipe & Foundry Co.

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co

N. Y., New York City

Duriron Castings Co., 90 West St.

Jacoby, Henry E., 95 Liberty St.

Van Emden Co., H., 145 W. 45th St.

Pa., Fullerton

Lehigh-Fuller Co.

*Pa., Philadelphia*Philadelphia Roll & Machine Co., S.
23d and Washington Ave.*Pa., South Bethlehem*

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Valley Iron Works

Pans, Clean Up*Colo., Denver*

Colorado Iron Works Co.

Ill., Chicago Heights

Chalmers & Williams, Inc.

Pans, Concentrating*Pa., Fullerton*

Fuller-Lehigh Co.

Pans, Crystallizing, Metal*Ill., Batavia*

Sperry & Co., D. R.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., R. E., 75 Pitts St.

*N. Y., Buffalo*Buffalo Foundry & Machine Co., Ferry
& Fillmore Aves.

Devine Co., J. P.

Sowers Mfg. Co.

*N. Y., New York City*Machinery Utilities Co., Inc., 501 5th
Ave.

Mott Iron Works, J. L., 118 5th Ave.

N. Y., Rochester

Pfaudler Co.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Williamsport

Valley Iron Works

Pans, Crystallizing, Stoneware*Ill., Moline*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pans, Decomposing*England, Widnes*

Widnes Foundry Co., Ltd., The

Pans, Drip*Ill., Aurora*

Lyon Metallic Mfg. Co.

*Ill., Chicago*Katzinger Co., Edward, 120 N. Peoria
Ave.*Mass., Boston*

Badger & Sons Co., R. E., 75 Pitts St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Pans, Enameled*N. Y., New York City*

Mott Iron Works, J. L.

N. Y., Rochester

Pfaudler Co.

Ohio, Elyria

Elyria Enameled Products Co.

Pans, Evaporating

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

England, Widnes

Widnes Foundry Co., Ltd., The
Ill., Chicago

*Schaar & Co., 1025 S. State St.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Fall River

Scott & Co., Ernest

N. J., Burlington

Stuart & Peterson

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. Y., Albany

Townsend Furnace & Machine Shop
Co., Broadway and Rensselaer St.

N. Y., Brooklyn

Improved Appliance Co., 413 Kent
Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26
Winchester Ave.

Devine Co., J. P.

Sowers Mfg. Co.

N. Y., Corning

Corning Glass Works

N. Y., New York City

Duriron Castings Co., 90 West St.

United Lined Tube & Valve Co., 111
Broadway

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Ohio, Elyria

Elyria Enameled Products Co.

Ohio, Leetonia

Leetonia Boiler Co., Kunkel Bldg.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pans, Evaporating, Enameled

Ohio, Cleveland

Vitreous Enameling Co., Grant Ave.
near 71st St.

Pans, Furnace

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Pans, Grinding

Colo., Denver

Colorado Iron Works Co.

Ill., Batavia

Sperry & Co., D. R.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26
Winchester Ave.

Sowers Mfg. Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

Ohio, Columbus

Jeffrey Mfg. Co.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard
Bldg.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pans, Hydrochloric Concentrating

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry
and Fillmore Aves.

Pans, Incinerating, Platinum

N. J., Newark

American Platinum Works, 225 N. J.
R. R. Ave.

Baker & Co., Inc.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Pans, Jacketed

England, Stanningley, nr. Leeds

Leeds & Bradford Boiler Co., Ltd., The

Pans, Lead Lined

Colo., Denver

Colorado Iron Works Co.

Ill., Batavia

Sperry & Co., D. R.

Mass., Fall River

Scott & Co., Ernest

N. Y., Brooklyn

Abernathy, John F., 703 Myrtle Ave.

N. Y., New York City

Jacoby, Henry E., 95-97 Liberty St.

National Enameling & Stamping Co.,
411 Fifth Ave.

U. S. Lined Tube & Valve Co., 165
Broadway

N. Y., Rochester

Plaudler Co.

Ohio, Alliance

Reeves Bros. Co.

Pans, Mixing

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Ill., Batavia

Sperry & Co., D. R.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. Y., Buffalo

Sowers Mfg. Co.

Pa., Fullerton

Fuller-Lehigh Co.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pans, Porcelain Lined

- N. J., Burlington*
Stuart & Peterson Co.
N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pans, Recovery

- Pa., Fullerton*
Fuller-Lehigh Co.

Pans, Revolving

- Ohio, Cincinnati*
Day & Co., J. H., 1144 Harrison Blvd.

Pans, Salt Cake

- Pa., Fullerton*
Fuller-Lehigh Co.

Pans, Soap

- England, Stanningley, nr. Leeds*
Leeds & Bradford Boiler Co., Ltd., The

Pans, Steam Jacketed

- England, Deepfields, nr. Bilston, Staffs*
Cannon Iron Foundries, Ltd.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.
Sowers Mfg. Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Steel

- Ill., Aurora*
Lyon Metallic Mfg. Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock
Bldg.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Sowers Mfg. Co.
Zaremba Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Stevens Bros., Singer Bldg.
N. Y., Rochester
Pfaudler Co.
Ohio, Alliance
Reeves Bros. Co.
Ohio, Elyria
Elyria Enameled Products Co.

- Ohio, Youngstown*
Youngstown Pressed Steel Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Oat & Sons, Jos., 230 Quarry St.
Ott Co., George F., 213 Buttonwood
St.
Stokes Machine Co., F. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pans, Steel, Electrically Welded

- N. J., Garwood*
Beckley Perforating Co., North Ave.

Pans, Subliming

- Ill., Batavia*
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock
Bldg.
N. J., Newark
Acid Proof Iron Products Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Stevens Bros., Singer Bldg.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.

Pans, Vacuum

- Ill., Batavia*
Sperry & Co., D. R.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Swenson Evaporator Co., 935 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63 Pitts St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box, 259
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Manistee
Manistee Iron Works Co.
N. J., Burlington
Stuart & Peterson Co.
N. J., East Carteret
Wheeler Condenser & Eng. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Pans, Vacuum—cont.*N. Y., Buffalo*

Buffalo Foundry & Machine Co.
Devine Co., J. P., 1372 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Niagara Life Ins. Co.
Bldg.

N. Y., New York City

Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.

Mott Iron Works, J. L., 118 5th Ave.
Sanborn Evaporator Co., 87 Wall St.

N. Y., Rochester

Pfaudler Co., The

Ohio, Akron

U. S. Stoneware Co.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Philadelphia

Blair, Campbell & McLean, Inc.,
Colonial Trust Bldg.

Scotland, Glasgow

Blair, Campden & McLean, Ltd.,
Woodville St., Govan

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pans, Vacuum (Steam Jacketed)*N. Y., Buffalo*

Devine Co., J. P.

N. Y., Rochester

Pfaudler Co., The

Pantographs*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave

Paper, Abrasive*N. Y., Niagara Falls*

Carborundum Co.

Paper, Blue Print*Ill., Chicago*

Pease Co., C. F., 219 W. Institute Pl.

Paper, Chemical*N. Y., New York City*

Fougera & Co., E., 90 Beekman St

Wash., Everett

Everett Pulp & Paper Co.

Paper, Dialyser*N. Y., New York City*

Reeve, Angel & Co., Inc., H, 120 Liberty St

Paper Felt Duck*Md., Baltimore*

Mt. Vernon-Woodberry Mills, Inc.

N. Y., New York City

Turner, Halsey Co., 62 Leonard St.

Paper, Filter*Cal., Berkeley*

*University Apparatus Co.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.

Deegan Supply Co., 116-122 W. Illinois St.

*Daigger & Co., A, 52-56 W. Kinzie St

*Laboratory Materials Co., 640 E. 71st St.

*Schaar & Co., 1025 S. State St.

Mo., St. Louis

*Heil Chemical Co., Henry, 210-214 S. 4th St.

N. J., Harrison

Shriver & Co., T., 860 Hamilton St.

N. Y., Brooklyn

Johnson Co., John, 37th St. and 2d Ave.

N. Y., New York City

Reeve, Angel & Co., Inc., H, 120 Liberty St

*Cooper & Co., Chas., 194 Worth St.

*Eimer & Amend, 205-211 3d Ave

*Scientific Utilities Co., Inc., 84 E. 10th St.

*Palo Co., 90-91 Maiden Lane

N. Y., Rochester

*Bausch & Lomb Optical Co.

Ohio, Columbus

*Laboratory Supply Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Whitall-Tatum Co., 410 Race St.

Williams, Browne & Earle

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Paper, Glassine*Pa., Bridgeport*

Diamond State Fibre Co.

Paper, Insulating*Mo., St. Louis*

General Roofing Mfg. Co.

Paper Mill Machinery*Conn., Ansonia*

Farrell Foundry & Machinery Co.

Del., Wilmington

Pusey & Jones Co.

Paper Mill Machinery—cont.**Ill., Chicago**

Link-Belt Co., W. 39th St. and Stewart Ave.

• **Stroud & Co., E. H., 928-934 Fullerton Ave.**

Swenson Evaporator Co., Monadnock Bldg.

Mass., Holyoke

Holyoke Machine Co.

Mass., Worcester

Rice, Barton & Fales Machine & Iron Co.

Mich., Saginaw

Werner & Pfeleiderer Co., 1260 N. Niagara St.

N. J., Newark

Currier & Sons, Cyrus

N. Y., Brooklyn

Johnson Co., John

N. Y., New York City

Abbé, Paul O., New St. and Exchange Pl

Abbe Engineering Co., 220 Broadway
Dorr Co., 101 Park Ave.

International Process Co., Be-
man St

N. Y., Rochester

Knowlton Co., M. D.

N. Y., Ticonderoga

Ticonderoga Machine Works

Ohio, Akron

Biggs Boiler Works Co

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Hamilton

Black-Clawson Co

Ohio, Sandusky

Sandusky Foundry & Machine Co.

Pa., Chester

Wetherill & Co., Robert

R. I., Providence

Textile Finishing Machinery Co

Wis., Beloit

Beloit Iron Works

Paper, Parchment**N. Y., New York City**

Reeve, Angel & Co., Inc., H., 120 Liberty St

Paper Pulp Machinery (see Paper Mill Machinery)**Paper Testing Apparatus****N. Y., New York City**

Bernard & Co., F. J., 70 Murray St.

Paraamidophenol Plants**Mass., Boston**

Badger & Sons Co., E. B., 63-75 Pitts-
St.

Mass., Fall River

Scott & Co., Ernest

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26
Winchester Ave.

Devine Co., J. P.

Parchment, Vegetable Paper**Pa., Bridgeport**

Diamond State Fibre Co.

Parchmoid Paper**Pa., Bridgeport**

Diamond State Fibre Co.

Pasteurizing Apparatus**Conn., Derby**

Dairy Machinery & Construction Co.,
Inc.

Ia., Cedar Rapids

Cherry Co., J. G.

Ill., North Chicago

Davis Watkins Dairymens Mfg. Co.

Mass., Boston

International Equipment Co.

Mo., St. Louis

Barry-Wehmiller Mach. Co., 6501
Florissant Ave.

N. Y., Long Island City

Jensen Creamery Machinery Co.

Ohio, Canton

Advance Dairy Machinery Co.

Ohio, Cleveland

Loew Mfg. Co.

Wis., Milwaukee

Milwaukee Dairy Supply Co.

Vilter Mfg. Co.

Patches, Gummed**Mass., Framingham**

Dennison Mfg. Co.

Pebbles, Danish Flint**N. Y., New York City**

Smith & Co., F. L., 50 Church St.

Pebbles, Flint, Selected**N. Y., New York City**

Abbé, Paul O., 30 Broad St

Penetrometers**Ill., Chicago**

Daigger & Co., A., 52-56 W. Kinzie St.

N. Y., Brooklyn

Howard & Morse, 1197-1211 De Kalb
Ave.

N. Y., New York City

*Emmer & Amend, 205-211 3d Ave.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washing-
ton Sq.

Penstocks

- Iowa, Des Moines*
Des Moines Bridge & Iron Works
Md., Baltimore
Bartlett Hayward Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Sharon
Petroleum Iron Works Co.

Percolators,

- Mass., Fall River*
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Burlington
Stuart & Peterson Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Brooklyn
Burkhard Inc., Thomas, 494 Flushing Ave.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 Church St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.

Percolators, Pharmaceutical

- Mass., Boston*
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Philadelphia
Stokes Machine Co., F. J.

Pestles (*see also Mortars*)

- England, Deepfields, nr. Bilston, Staffs*
Cannon Iron Foundries, Ltd.
Ill., Joliet
Humphrey & Sons

- N. Y., New York City*
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Cambridge Glass Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Carbondale
Griebel Instrument Co.

Petrographic Apparatus

- N. Y., Binghamton*
Anseo Co
N. Y., Rochester
Bausch & Lomb Optical Co.
Eastman Kodak Co.

Pharmaceutical Machinery

- Mich., Detroit*
Colton Co., Arthur
Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Whitall-Tatum Co

Phenacetin Apparatus

- N. Y., Buffalo*
Devine Co., J. P.

Phenolphthalein Apparatus

- N. Y., Buffalo*
Devine Co., J. P.

Phenol Plants

- Ind., Fort Wayne*
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummis Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Kalpberry Corp., 31 Union Sq., W.

Phosphorizers, Graphite*Mass., Taunton*

Taunton Crucible Co.

N. J., Jersey City

*Dixon Crucible Co., Joseph

Gautier & Co., J. H.

N. Y., New York City

Foreign Crucibles Corp., Ltd., 51 Church St.

N. Y., Niagara Falls

Acheson Graphite Co.

International Acheson Graphite Co.

Pa., Philadelphia

Ross-Tacony Crucible Co.

Photographic Apparatus*Mo., St. Louis*Cramer Dry Plate Co., G., Lemp and
Shenandoah Aves.Hammer Dry Plate Co., Ohio Ave.
and Miama St.*N. Y., Binghamton*

Ansco Co

N. Y., New York City

Fuerst Bros. & Co., 2 Stone St.

Gennert, G., 24 E. 13th St.

N. Y., Rochester

Bausch & Lomb Optical Co.

Eastman Kodak Co., 243 State St.

Photographic Film Machinery*Mich., Saginaw*Werner & Pfleiderer Co., 1260 N. Ni-
agara St.**Photographic Lenses***N. Y., Rochester*

Bausch & Lomb Optical Co.

Photometers*N. Y., New York City*

Bernard & Co., F. J., 70 Murray St.

Connelly Iron Sponge & Governor Co.,
227 Fulton St.

Palo Co., 90 Maiden Lane

*Pa., Philadelphia*Leeds & Northrup Co., 4901 Stenton
Ave.**Photometers, Jet***N. Y., New York City*Connelly Iron Sponge & Governor Co.,
227 Fulton St.**Photomicrographic Apparatus***Mo., St. Louis**Hell Chemical Co., Henry, 210-214 S.
4th St.*N. Y., New York City**Lenz Apparatus Co., Inc., 18 E. 16th
St.

*Elmer & Amend, 205-211 3d Ave.

Palo Co., 90-94 Maiden Lane

N. Y., Rochester

Bausch & Lomb Optical Co.

*Pa., Philadelphia**Thomas Co., Arthur H., W. Washing-
ton Sq.**Photomicroscopical Apparatus***Pa., Philadelphia*Williams-Brown & Earle, 918 Chestnut
St.**Physical Apparatus** (*see Chemical
Equipment and Apparatus; see Specific
Headings*)**Physiological Apparatus** (*see
Chemical Equipment and Apparatus;
see Specific Headings*)**Pipe** (*see Fittings*)**Pipe, Acid Proof***Cal., San Francisco*Gladding, McBean & Co., 148 Natoma
St.

Pacific Pipe & Tank Co.

Ill., Monmouth

Western Stoneware Co.

*N. J., Newark*Acid Proof Iron Products Co., Inc.,
41 Hermon St.*N. Y., Brooklyn*

Abernathy, John F., 703 Myrtle Ave.

*N. Y., New York City*American Hard Rubber Co., 11 Mercer
St.Bethlehem Foundry & Machine Co.,
149 Broadway

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Gutta Percha & Rubber Mfg. Co., 127
Doane St.

Sidio Co. of America, 37 Murray St.

Thermal Syndicate, Ltd., 70 E. 41st St.

United Lined Tube & Valve Co., 111
Broadway*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pipe, Ammonia*Ga., Columbus*

Columbus Iron Works Co.

Ky., Louisville

Vogt Machine Co., Henry

N. J., New Brunswick

Brunswick Refrigerating Co.

Pa., York

York Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co.

Pipe and Fittings, Stoneware*N. Y., New York City*General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The
Charles, 986 Metropolitan Ave.*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pipe, Antimonial Lead*Mo., St. Louis*

Hoyt Metal Co., 300 N. Broadway

Pipe, Block Tin*Ill., Chicago*Eagle Picher Lead Co., 208 S. La Salle
St.*Mo., St. Louis*

Hoyt Metal Co., 300 N. Broadway

N. Y., New York City

United Lead Co., 111 Broadway

Pipe Casing*N. Y., Elmira*

Wyckoff & Son Co., A.

Pipe, Cast Iron*Ala., Birmingham*

American Cast Iron Pipe Co.

*Ill., Chicago*Illinois Malleable Iron Co. 1804
Diversey Blvd*N. J., East Burlington*

U. S. Cast Iron Pipe & Foundry Co.

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St.

Pa., Pittsburgh

National Tube Co.

Pipe, Cast Iron, Enameled*England, Deepfields, nr. Bilston, Staffs*

Cannon Iron Foundries, Ltd.

Pipe, Cast Iron, Glass Lined*Pa., Philadelphia*

Wood & Co., R. D., 400 Chestnut St.

Pipe, Copper*Conn., Bridgeport*

Bridgeport Brass Co.

Conn., Waterbury

American Brass Co.

Md., Baltimore

Baltimore Tube Co.

N. J., East Carteret

Wheeler Condenser & Engineering Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*N. Y., New York City*Hungerford Brass & Copper Co., U.
T., 82 Lafayette St.United Lined Tube & Valve Co., 111
Broadway*Pa., Philadelphia*Ott Co., George F., 213 Buttonwood
St.**Pipe, Copper Lined, Iron***N. Y., New York City*United Lined Tube & Valve Co., 111
Broadway**Pipe Covering***N. Y., New York City*

Celite Products Co., 11 Broadway

Pipe, Hard Rubber*N. J., Trenton*

Luzerne Rubber Co., Muirheid Ave.

Pipe, Lead*Cal., San Francisco*Selby Smelting & Lead Co., Merchants
Exchange Bldg.*Ill., Chicago*Eagle Picher Lead Co., 208 S. La Salle
St.

Raymond Lead Co., 940 W. Huron St.

N. Y., New York City

Du Bois & Co., F. H., 245 9th Ave.

United Lined Tube & Lead Co., 111
Broadway*Pa., Coatesville*

Coatesville Boiler Works

Pipe, Lead, Chemical*Mo., St. Louis*

Hoyt Metal Co., 300 N. Broadway

N. Y., New York City

National Lead Co., 111 Broadway

Pipe, Lead, Covered Iron*Mo., St. Louis*

Hoyt Metal Co., 300 N. Broadway

Pipe, Lead Lined*N. Y., New York City*United Lined Tube & Valve Co., 111
Broadway**Pipe, Lead Lined, Iron***Mo., St. Louis*

Hoyt Metal Co., 300 N. Broadway

N. Y., New York City

United Lead Co., 111 Broadway

Pipe Line Measures, Self Registering*Ind., Ft. Wayne*

Bowser & Co., Inc., S. F.

Pipe, Pile, Pure Tin

Pa., New Brighton
Standard Specialty & Tube Co.

Pipe, Plain and Socket

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Pipe, Riveted

Cal., Los Angeles
Llewellyn Iron Works
Ind., Fort Wayne
Western Gas Construction Co.
Mass., Boston
Sturtevant Co., B. F.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Farrar & Treffts, 47 Perry St.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works
Ohio, Leontonia
Leontonia Boiler Co., Kunkel Bldg
Pa., Coatesville
Coatesville Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pipe, Sheet Lead

Ill., Chicago
Raymond Lead Co
N. Y., New York City
United Lead Co., 111 Broadway

Pipe, Steel

Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg
Ind., East Chicago
Grayer Tank Works, Wm
Ind., Fort Wayne
Western Gas Construction Co
Mich., Detroit
Steere Engineering Co., Woodward Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave
N. Y., New York City
Dover Boiler Works, 50 Church St.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Akron
Biggs Boiler Works Co.

Ohio, Youngstown
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.
Pa., Pittsburgh
Jones & Laughlin Co.
National Tube Co.
Pittsburgh Valve Foundry & Construction Co.
Scaife & Sons Co., W. B.
Pa., Sharon
Petroleum Iron Works Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pipe, Steel, Glass Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pipe, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Pipe Supports

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Pipe Systems

N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Pipe, Tin Lined

N. Y., New York City
National Lead Co., 111 Broadway
United Lined Tube & Valve Co., 111 Broadway

Pipe, Tin Lined, Iron

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Pipe, Tower, Stoneware

Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.

Pipe, Wood

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.
Redwood Mfrs. Association
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co., The

Mich., Kalamazoo

Kalamazoo Tank & Silo Co.

N. Y., New York City

Acme Tank Co., 39 Courtlandt St.

Ohio, Cincinnati

Hauser, Stander Tank Co.

Ore., Portland

National Tank & Pipe Co., 275 Oak St.

Wash., Seattle

Continental Pipe Mfg. Co.

Pipe, Wood, Solid Bored

N. Y., Elmira

Wyckoff & Son Co., A.

Pipe, Wood Stave

N. Y., Elmira

Wyckoff & Son Co., A.

Pipe, Wrought Steel, Lap Welded

N. Y., New York City

Kellogg Co., The M. W., 90 West St.

Pipes and Fittings, Lead Lined

N. Y., New York City

United Lined Tube & Valve Co., 111 Broadway

Pipes and Fittings, Lead Lined Iron

N. Y., New York City

United Lined Tube & Valve Co., 111 Broadway

Pipes and Fittings, Steam Jacketed

N. Y., Buffalo

Devine Co., J. P.

Pipette Rests

Ohio, Zanesville

Ohio Pottery Co., Dearborn St.

Pipettes (see also Glassware, Chemical)

England, Birmingham

Belchers (Standley) & Mason, Ltd., Church St.

N. Y., New York City

Bernard & Co., F. J., 70 Murray St.

Scientific Utilities Co., Inc., 84 E. 10th St.

N. Y., Rochester

Will Corporation

Ohio, Zanesville

Ohio Pottery Co., Dearborn St

Pa., Carbondale

Griebel Instrument Co.

Pipettes, Gas

N. Y., New York City

Bernard & Co., F. J., 70 Murray St.

Pipettes, Serological

N. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

Piping, High Pressure

Conn., Hartford

Whitlock Coil Pipe Co.

Pitchers, Acid

Ohio, Akron

Weeks, A. J.

Pitchers, Acid Proof

Ohio, East Akron

Knight, Maurice A.

Pitchers, Stoneware

N. Y., New York City

Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Pitot Tubes

Mich., Detroit

American Blower Co.

Planimeters

N. Y., New York City

Robertson & Son, James L., 78-80 Murray St.

Pa., Corry

Trill Indicator Co.

Plants (see Specific Headings; also Consult Chapter V: Chemical Engineers)

Plate Construction (see also Steel Plates)

Mich., Muskegon

Muskegon Boiler Works, Eighth St.

N. J., Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Williamsport

Keeler Co., E., 238 West St.

Plate Work Apparatus

N. Y., New York City

Furman-Fisher Corporation, 30 Church St.

Plate Work, Special

Mass., Frammingham

International Engineering Works, Inc. Waverly St.

Plates Activated Sludge, Air Diffusing

N. Y., Rochester

General Filtration Co., Inc., Cutler Bldg.

Plates, Air Diffusing

N. Y., Rochester

General Filtration Co., Inc., Cutler Bldg.

Plates, Alundum, for Filtering*Mass., Worcester*

Norton Co., New Bond St.

Plates, Aerating*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Plates, Cast Iron*Ala., Birmingham*

Tennessee Coal Iron & R. R. Co.

N. J., East Burlington

U. S. Cast Iron Pipe and Foundry Co

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Pittsburgh

American Sheet & Tin Plate Co

Plates, Color*Ohio, Zanesville*

Ohio Pottery Co., Dearborn St

Plates, Desiccator*N. Y., Rochester*

*Will Corporation

Ohio, Zanesville

Ohio Pottery Co., Dearborn St

Plates, Distributing, Tower, Stoneware*N. Y., New York City*

Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Plates, Filter, Acid Proof (*see Filter Plates, Acid Proof*)**Plates, Flotation***N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Plates, Gas Diffusing*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Plates, Glass*N. Y., Corning*

Corning Glass Works

Plates, Hot*Mich., Detroit*

Hoskins Mfg. Co., 453-471 Lawton Ave.

N. J., Newark

Electric Heating Apparatus Co., 123-125 Sussex Ave.

N. Y., New York City

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Plates, Porcelain (*see also Laboratory Apparatus and Equipment*)*Colo., Golden*

Herold China & Pottery Co.

Ohio, Cambridge

Guernsey Earthenware Co.

Ohio, Columbus

Laboratory Supply Co.

Plates, Porous*Ohio, Zanesville*

Ohio Pottery Co., Dearborn St.

Plates, Porous, Acid Proof*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Plates, Screen (*see Screens*)**Platforms, Engine***Ohio, Lectoria*

Lectoria Boiler Co., Kunkel Bldg.

Platinum, Alloys*Pa., Malvern*

Bishop & Co., J., Platinum Works

Platinum, Assayers*Pa., Malvern*

Bishop & Co., J., Platinum Works

Platinum, Contacts*Pa., Malvern*

Bishop & Co., J., Platinum Works

Platinum Apparatus*N. J., Newark*

American Platinum Works, 225 New Jersey R. R. Ave

Baker & Co., Inc., 54 Austin St.

N. Y., New York City

American Smelting & Refining Co., 120 Broadway

*Eimer & Amend, 205-211 3d Ave.

*Laboratory Materials Co., 640 E. 71st St

United States Metals Refining Co., 120 Broadway

N. Y., Rochester

*Bausch & Lomb Optical Co.

*Will Corporation

Pa., Malvern

Bishop & Co., J., Platinum Works

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co.

Platinum, Dishes

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
- N. Y., New York City*
*Eimer & Amend, 205-211 3d Ave.
- Pa., Malvern*
Bishop & Co., J., Platinum Works
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Electrodes

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
- N. Y., New York City*
Eimer & Amend, 205-211 3d Ave.
- Pa., Malvern*
Bishop & Co., J., Platinum Works
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Filter Cones

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum Gauze

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum Gold

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum, Sheet and Foil

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
- N. Y., New York City*
*Eimer & Amend, 205-211 3d Ave.
- Pa., Malvern*
Bishop & Co., J., Platinum Works
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Platinum Sheet, Perforated

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum, Silver

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum Ware

- Ill., Chicago*
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
- N. J., Newark*
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
- N. Y., New York City*
Eimer & Amend, 205-211 3d Ave.
- Pa., Malvern*
Bishop & Co., J., Platinum Works
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Wire

- N. J., Newark*
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
- N. Y., New York City*
*Eimer & Amend, 205-211 3d Ave.
- Pa., Malvern*
Bishop & Co., J., Platinum Works
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Plugs, Acid Proof

- Conn., Bridgeport*
Canfield Rubber Co.
- Ill., Monmouth*
Western Stoneware Co.
- N. J., Newark*
Acid Proof Iron Products Co.
- N. Y., New York City*
Dunron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
U. S. Rubber Co., 1790 Broadway
- Ohio, Akron*
U. S. Stoneware Co.
- Ohio, East Akron*
Knight, Maurice A.

Plugs, Fusible

- Mass., Boston*
Plouff Co., 1558 River St., Hyde Park
- N. Y., Buffalo*
Farrar & Trefts, 47 Perry St.
Sherwood Mfg. Co., 1710 Elmwood Ave.
- N. Y., New York City*
Connelly Iron Sponge & Governor Co., 127 Duane St.
- N. Y., Rockville Center, Long Island*
Nassau Valve & Pump Co., Inc.

Plugs, Graphite

N. Y., Jersey City
Dixon Crucible Co., Joseph

Plugs, Lead

N. Y., New York City
United Lined Tube & Valve Co., 165 Broadway
Pa., Philadelphia
Monarch Mfg. Work., Inc., 3129 Emery St

Plungers, Pump, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Polariscopes

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mich., Ann Arbor
*Eberbach & Son Co.
N. Y., New York City
*Eimer & Amend, 211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Porcelains, Impervite

N. Y., New York City
Engelhard, Chas., 30 Church St

Porcelain Ware

Colo., Denver
Denver Fire Clay Co
Colo., Golden
Herold China & Pottery Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger, A., & Co., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
*Schaar & Co., 1025 S. State St
N. J., Burlington
Stuart & Peterson Co.
N. Y., New York City
Abb: Paul O., 30 Broad St
*American Apparatus Corp., 9-11 E. 16th St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
*Doniger & Co., 164 5th Ave.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

*Palo Co., 90-94 Maiden Lane

*Scientific Utilities Co., Inc., 84 E. 10th St.

*Standard Scientific Co., 147 Waverly Pl.

Ohio, Cambridge

Guernsey Earthenware Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Ohio, Columbus

*Laboratory Supply Co.

Ohio Pottery Co.

Pa., Pittsburgh

*Scientific Materials Co.

Posts, Indicator

N. Y., Elmira
Kennedy Valve Mfg. Co.

Pots, Acid

Ala., Birmingham
Alabama Cast Iron Pipe Co.
Ga., Atlanta
Pratt Engineering & Machine Co.
Mass., Boston
Badger & Sons, E. B., 63-75 Pitts St.
Henderson, Geo., 9 Preston St.
Mass., Fall River
Scott & Co., Ernest
N. J., Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Newark
Acid Proof Iron Products Co., 41 Hermon St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. Y., Woodhaven
Chemical Equipment Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Akron
United States Stoneware Co.
Pa., Philadelphia
Kutztown Foundry & Machine Co.
Morris Bldg.
Pa., Pittsburgh
Marshall Foundry Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Pots, Acid Proof Stoneware

N. Y., Rochester
Pfaudler Co., The
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pots, Acid Resistant, Cast Iron, Glass Enameled

Ohio, Elyria
Elyria Enameled Products Co.

Pots, Annealing

Conn., Branford
Malleable Iron Fittings Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26
Winchester Ave.

Pots, Assay Clay

N. J., Jersey City
Dixon Crucible Co., Joseph

Pots, Assay Sand

N. J., Jersey City
Dixon Crucible Co., Joseph

Pots, Caustic

Ala., Birmingham
American Cast Iron Pipe Co.
England, Widnes
Widnes Foundry Co., Ltd., The
Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts
St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Newark
Acid Proof Iron Products Co., Inc., 41
Hermon St.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent
Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry
and Fillmore Aves.
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Stevens Bros., 928 Singer Bldg.

Ohio, Akron

U. S. Stoneware Co.

Pa., Coatesville

Coatesville Boiler Works

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Philadelphia

Stokes Machine Co., F. J.

Wood & Co., R. D., 400 Chestnut St.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pots, Decanting

Ill., Monmouth

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pots, Decomposing

Pa., Fullerton

Fuller-Lehigh Co.

Pots, Galvanizing

N. Y., New York City

General Ceramics Co., 50 Church St.

Wis., Milwaukee

Milwaukee Boiler Co., 220 Oregon St.

Pots, Nitre

Del., Wilmington

Walker & Elliott, Inc.

Ill., Batavia

Sperry & Co., D. R.

Md., Baltimore

Caroline Foundry Co., 723 S. Caroline
St.

Mich., Bay City

MacKinnon Boiler & Machine Co.

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 43
Winchester Ave.

Devine Co., J. P.

Sowers Mfg. Co.

N. Y., New York City

Cornell Iron Works, 26th and 11th Ave.
Duriron Castings Co., 90 West St.

N. Y., Rochester

Pfaudler Co., The

N. Y., Woodhaven

Chemical Equipment Co.

Ohio, Elyria

Elyria Enameled Products Co.

Pots, Nitre—cont.*Pa., Philadelphia*Kutztown Foundry & Machine Co.,
Morris Bldg.*Pa., Pittsburgh*Marshall Foundry Co., 28th and Rail-
road Ave.*Pa., South Bethlehem*

Bethlehem Foundry & Machine Co.

Wis., Manitowoc

Manitowoc Engineering Works

Pots, Smelting*N. Y., New York City*International Process Co., 5 Beekman
St.**Pots, Stoneware***Ill., Monmouth*

Western Stoneware Co.

*N. J., Newark*Hanson & Van Winkle Co., 269 Oliver
St.*N. Y., New York City*General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The
Charles, 986 Metropolitan Ave.*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pots, Tinning*Ill., Batavia*

Sperry & Co., D. R.

*Pa., Pittsburgh*Marshall Foundry Co., 29th and Rail-
road Sts.**Pottery Machinery***Ohio, Bucyrus*

American Clay Machinery Co.

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Powder Flasks, Fibre*N. Y., New York City*

Cordley & Hayes, 7 Leonard St.

Powder Mill Machinery*Mich., Saginaw*Werner & Pfeleiderer Co., 1260 N. Ni-
agara St.**Power Plants, Electric***N. Y., New York City*

Western Electric Co., 195 Broadway

N. Y., Schenectady

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Power Stations, Hydraulic*N. Y., New York City*

Dover Boiler Works, 55 Church St.

Power Transmission Machinery*(see Transmission Machinery)***Precipitation Apparatus***Ill., Chicago*Thordarson Electric Mfg. Co., 501 S.
Jefferson St.**Precipitation Process, Electric
Equipment for***N. Y., Schenectady*

General Electric Co.

**Precipitation Process, Zinc
Dust***Cal., San Francisco*

Merrill Metallurgical Co., 121 2d St.

**Precipitation Processes, Cot-
trell, Electrical***N. Y., New York City*

Research Corporation, 65 Wall St.

Precipitators*Pa., Mechanicsburg*Scientific Instrument & Electrical Ma-
chine Co.**Precision Instruments***Conn., Waterbury*

Bristol Co.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie
St.Gaertner & Co., Wm., 5345 Lake Park
Ave.*Laboratory Materials Co., 640 E.
71st St.

*Schaar & Co., 1025 S. State St.

Mass., Foxboro

Foxboro Co., Inc.

Mass., Southbridge

American Optical Co.

*Mo., St. Louis**Heil Chemical Co., Henry, 210-214 S.
4th St.*N. J., Trenton*

Pyroelectric Co., 148 E. State St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th
St.

*Palo Co., 50 E. 41st St.

Western Electric Co., 463 West St.

N. Y., Rochester

Bausch & Lomb Optical Co.

Precision Instruments—cont.*Pa., Philadelphia*

Biddle James G.

Brown Instrument Co.

Leeds & Northrup Co., 4921 Stenton Ave.

*Thomas Co., Arthur H., W. Washington Sq.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Pittsburgh

*Scientific Materials Co., 711-719 Forbes St.

Preheaters*Ind., Fort Wayne*

► Western Gas Construction Co.

N. J., Burlington

United States Cast Iron Pipe & Foundry Co.

Mass., Fall River

Scott & Co., Ernest

N. Y., Brooklyn

Hauck Mfg. Co., 101-113 Eleventh St.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

N. Y., Buffalo

Zaremba Co., Morgan Bldg.

N. Y., New York City

Thermal Syndicate, Ltd., 50 E. 41st St.

N. Y., Rochester

Pfaudler Co.

N. Y., Syracuse

Syracuse Industrial Gas Co., 483 S. Salina St.

Pa., Williamsport

Valley Iron Works

Presses, Abrasive Wheel*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Acid (see also *Presses, Hydraulic*)*N. Y., Syracuse*

Boomer & Boscher & Press Co.

Presses, Baling*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Briquetting*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Clay Forming*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Cold Plate*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Continuous*N. Y., New York City*

American Process Co., 68 William St.

Presses, Electro-Chemical*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Electrode*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Fertilizer*N. Y., Syracuse*

Boomer & Boschert Press Co.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Presses, Filter*Cal., Los Angeles*

Llewellyn Iron Works

Cal., San Francisco

Oliver Continuous Filter Co., 505 Market St.

Ill., Chicago

Perrin & Co., William R., Old Colony Bldg.

Redfield, Robert S., 327 S. La Salle St.

Swenson Evaporator Co., Monadnock Bldg.

Ill., Batavia

Sperry & Co., D. R.

Md., Baltimore

Bartlett Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mich., Saginaw

Werner & Pfeleiderer Co., 1260 N. Niagara St.

N. J., Carteret

Wheeler Condenser & Engineering Co.

N. J., Elizabeth

Moore & Sons, Corp., Samuel L.

N. J., Harrison

Shriver & Co., T., 860 Hamilton St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*N. Y., Brooklyn*Johnson Co., John, 37th and 2d Ave.
Townsend Furnace & Machine Shop
Co., B'way and Rennselaer St.

Presses, Filter—cont.*N. Y., New York City*

Abbe Engineering Co., 220 Broadway
American Process Co., 68 William St.

Beach-Russ Co., 220 Broadway

*Eimer & Amend, 205-211 3d Ave.

Independent Filter Press Co., Inc., 47 W. 34th St.

Industrial Filtration Corp., 115 Broadway

*Jacoby, Henry E., 95 Liberty St.

Lungwitz, Emil E., 30 Church St.

Machinery Utilities Co., Inc., 501 5th Ave.

*Palo Co., 50 E. 41st St.

Provost Engineering Corp., 218 Broadway

United Filters Corporation, 65 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Pa., Carbondale

Carbondale Machine Co.

Utah, Salt Lake City

United Filters Corp., Felt Bldg.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Presses, Filter (Acid Proof)*N. Y., New York City*

Provost Engineering Corp., 220 Broadway

Presses, Filter Laboratory*N. Y., Brooklyn*

Johnson Co., John, 37th St. and 2d Ave

Presses, Garbage Reduction*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Grease*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Herb*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Hot Plate*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Hydraulic*Conn., Ansonia*

Farrell Foundry & Machine Co.

Ill., Chicago

Perrin & Co., William R., Old Colony Bldg.

Redfield, Robert S., 327 S. La Salle St.

Mass., Holyoke

Holyoke Machine Co.

N. J., Newark

Shriver & Co., T.

Mich., Saginaw

Werner & Pfeiderer Co., 1260 N. Niagara St.

N. J., Aldena

Watson-Stillman Co., The

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

N. Y., New York City

Machinery Utilities Co., Inc., 501 5th Ave.

Worthington Pump & Machinery Corp.

N. Y., Olean

Van Atta & Co., Inc., E. B.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Pa., Philadelphia

Philadelphia Drying Machinery Co., 6721 Germantown Ave.

Wood & Co., D. R.

Presses, Laboratory*Ill., Chicago*

Perrin & Co., William R., Old Colony Bldg.

N. J., Harrison

Shriver & Co., T., 860 Hamilton St.

N. Y., Syracuse

Boomer & Boschert Press Co.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Presses, Leather*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Oil*N. J., Harrison*

Shriver & Co., T

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Presses, Oleo*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Powder*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Special*Ill., Batavia*

Sperry & Co., D. R.

Ill., Chicago

Perrin & Co., Wm. B., 37 W. Van Buren St.

Mich., Detroit

Colton Co., Arthur, 782 Jefferson Ave.

N. J., Harrison

Shriver & Co., T.

N. Y., New York City

Lungwitz, Emil E., 30 Church St.

N. Y., Syracuse

Boomer & Boschert Press Co., 382 W. Water St.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Presses, Steam Jacketed*Ill., Batavia*

Sperry & Co., D. R.

Presses, Stearic Acid*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Sugar Beet*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Tankage*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Veneer*Ohio, Mt. Gilead*

Hydraulic Press Mfg. Co.

Presses, Wooden Filter*N. Y., Brooklyn*

Johnson Co., John, 37th St. and 2d Ave.

Producers, Gas (*see Gas Producers*)**Producers, Pressure***N. Y., Syracuse*

Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Producers, Suction*N. Y., Syracuse*

Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Projection Apparatus*N. Y., Rochester*

Bausch & Lomb Optical Co.

N. Y., Schenectady

General Electric Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W Washington Sq.

Williams-Brown & Earle, 918 Chestnut St.

Protectors, Eye*Pa., Reading*

Hettinger, E. L., 2d and Washington Sts.

Protectors, Face and Head (*see also Helmets, Masks*)*N. Y., New York City*

Hayward & Co., S. F., 250 W. 54th St.

Pulley Covering*Ohio, Cincinnati*

Bradford Belting Co., 201 Walnut St.

Pulleys*Del., Wilmington*

Walker & Elliott, Inc.

Ill., Chicago

Caldwell & Sons Co., H. W., 17th and Western Aves.

Mass., Boston

American Tool & Machine Co.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Ohio, Tiffin

Webster Mfg. Co.

Pa., Philadelphia

Sellers & Co., Inc., Wm., 1600 Hamilton St.

Pulleys, Cork Insert*Mass., Boston*

Cork Insert Co., 164 Federal St.

Pulleys, Magnetic*N. Y., New York City*

Buchanan Co., Inc., C. G., 90 West St.

Wis., Milwaukee

Dings Magnetic Separator Co., 671 Smith St.

Magnetic Mfg. Co., 764 Windlake Ave.

Pulleys, Steel Split*Ill., Chicago*

Link-Belt Co., W. 39th St. and Stewart Ave.

Pa., Philadelphia

American Pulley Co., 4200 Wissahickon Ave.

Wis., Milwaukee

Chain Belt Co.

Pulp Mill Machinery (*see**Paper Machinery*)

Pulsometers*Mass., Boston*

Eastern Clay Goods Co., 141 Milk St.

Pulverized Coal Equipment (see also *Pulverizers, Coal*)*Md., Baltimore*

Meade & Co., Richard K., 608 Law Bldg.

Pulverizers, Air Separation*Cal., Los Angeles*

Lane Mill & Machinery Co., 106 W. 3d St.

Del., Wilmington

Walker & Elliott, Inc.

Ill., Chicago

Johnson Engineering Works, 1734 First National Bank Bldg.

Raymond Bros., Impact Pulverizer Co., 1319 N. Branch St.

Stroud & Co., E. H., 928-934 Fullerton Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Md., Baltimore

Sackett, A. J.

Mass., Boston

Sturtevant Mill Co., Harrison Sq

Mo., St. Louis

Gruendler Patent Crusher & Pulverizer Co., 928 N. 1st St.

N. Y., Brooklyn

Moussette Co., Inc., O. J., 22-26 Clay St.

N. Y., New York City

Abbe, Paul O., 30 Church St.

Abbe Engineering Co., 220 Broadway

Aero Pulverizer Co., 120 Broadway

Buchanan Co., Inc., C. G., 90 West St.

Hardinge Conical Mill Co., 120 Broadway

K.-B. Pulverizer Co., Inc., 86 Worth St.

Machinery Utilities Co., Inc., 501 5th Ave.

Mashek Engineering Co., 90 West St.

Mine & Smelter Supply Co., 42 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Pa., Philadelphia

Pennsylvania Crusher Co., Stephen Girard Bldg.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pulverizers, Aluminum Mill*Ill., Chicago*

Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Assayers (see *Pulverizers, Laboratory*)**Pulverizers, Cement***Ill., Chicago*

Stroud & Co., E. H., 928 Fullerton Ave.

Mass., Boston

Bradley Pulverizer Co.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Coal*Ill., Chicago*

Raymond Bros. Impact Pulverizer Co.

Stroud & Co., E. H., 928 Fullerton Ave.

Md., Baltimore

Meade & Co., Richard K., 608 Law Bldg.

Mass., Boston

Bradley Pulverizer Co.

N. Y., New York City

Abbe, Paul O., 30 Church St.

Abbe Engineering Co., 220 Broadway

Aero Pulverizer Co., 120 Broadway

Buchanan Co., Inc., C. G., 90 West St.

Provost Engineering Corp., 220 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Dry Color*Ill., Chicago*

Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.

Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Hammer-Bar*Mass., Boston*

Sturtevant Mill Co., Harrison Sq.

N. Y., New York City

K-B Pulverizer Co., Inc., 70 Worth St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Pulverizers, Hinged Hammer*Ill., Chicago*

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Pulverizers, Laboratory**Ohio, Columbus**

Jeffrey Mfg. Co., 904 N. 4th St.

Cal., Los Angeles

Braun Corp., The, 363 New High St.

Cal., San Francisco

Braun-Knecht-Heimann, 106 W. 3d St.

N. Y., New York City

Abbé, Paul O., 30 Church St.

Abbe Engineering Co., 220 Broadway

*Eimer & Amend, 205-211 3d Ave.

Mine & Smelter Supply Co., 42 Broadway

Palo Co., 90-94 Maiden Lane

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

*Scientific Materials Co.

Pulverizers, Limestone**Ill., Chicago**

Stroud & Co., E. H., 928 Fullerton Ave.

Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mass., Boston

Bradley Pulverizer Co.

Sturtevant Mill Co., Harrison Sq.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Pa., Philadelphia

Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Ore (see Crushers, Grinders)**Pulverizers, Phosphate Rock****Ill., Chicago**

Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Refractory Materials**Mass., Boston**

Bradley Pulverizer Co.

Ill., Chicago

Stroud & Co., E. H., 928 Fullerton Ave.

*Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mass., Boston

Bradley Pulverizer Co.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Ohio, Columbus

Jeffrey Mfg. Co.

Pulverizers, Ring Roll**Mass., Boston**

Sturtevant Mill Co.

Pulverizers, Stone (see Pulverizers, Ore)**Pump, Air Lift****Ill., Chicago**

Sullivan Machinery Co., 122 S. Michigan Ave.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

Mich., Battle Creek

American Steam Pump Co.

Pumping Apparatus, Special**N. Y., New York City**

Provost Engineering Corp., 220 Broadway

Pumping Machinery, Centrifugal**N. J., Baldwinville**

Morris Machine Works

Pumping Systems, Air Lift**N. Y., New York City**

Ingersoll-Rand Co., 11 Broadway

Pumping Systems, Pneumatic**N. Y., New York City**

Ingersoll-Rand Co., 11 Broadway

Pumps, Acid**Ill., Aurora**

American Well Works

Ill., Chicago

Sullivan Machinery Co., 122 S. Michigan Ave

Mich., Battle Creek

Advance Pump & Compressor Co.

American Steam Pump Co.

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. J., Perth Amboy

Chemical Pump & Valve Co.

N. J., Trenton

De Laval Steam Turbine Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Buffalo Steam Pump Co.

Lobee Pump Works, 19-31 Bridge St.

N. Y., New York City

Abbe Engineering Co., 220 Broadway
 Beach-Russ Co., 220 Broadway
 Duriron Castings Co., 90 West St.
 *Eimer & Amend, 205-211 3d Ave.
 • General Ceramics Co., 50 Church St.
 Ingersoll-Rand Co., 11 Broadway
 Provost Engineering Corp., 220 Broad-
 way

MacGovern & Co., Inc., 114 Liberty St.
 United Lined Tube & Valve Co., 111
 Broadway

Worthington Pump & Machinery
 Corp., 115 Broadway

N. Y., Rockville Center, Long Island
 Nassau Valve & Pump Co., Inc

N. Y., Seneca Falls
 Goulds Mfg. Co.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washing-
 ton Sq.

Wood & Co., D. R.

Pumps, Acid-Proof**N. Y., Brooklyn**

Johnson Co., John, 37th St. and 2d
 Ave

Pumps, Acid Resisting**Ill., Chicago**

Economy Pumping Machinery Co.,
 120-126 N. Curtis St.

Pumps, Air**Ill., Chicago**

Fairbanks-Morse & Co.

Sullivan Machinery Co., 122 S. Michi-
 gan Ave

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. J., East Carteret

Wheeler Condenser & Engineering Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26
 Winchester Ave.

Devine Co., J. P.

N. Y., New York City

Abbe Engineering Co., 220 Broadway
 Beach-Russ Co., 220 Broadway
 Ingersoll-Rand Co., 13 Broadway
 Worthington Pump & Machinery
 Corp., 115 Broadway

N. Y., Schenectady

General Electric Co.

N. Y., Seneca Falls

Gould Mfg. Co.

Pa., Carbondale

Griebel Instrument Co.

Pa., Philadelphia

Boekel & Co., Wm., 518 Vine St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

**Pumps, Air and Circulating,
Steam Driven****Conn., Hartford**

Terry Steam Turbine Co.

Mich., Battle Creek

Advance Pump & Compressor Co.

American Steam Pump Co.

N. Y., New York City

Worthington Pump & Machinery
 Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Alkali**N. Y., New York City**

Worthington Pump & Machinery
 Corp., 115 Broadway

Pumps, Ammonia**Mich., Battle Creek**

American Steam Pump Co.

Union Steam Pump Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

N. Y., New York City

Machinery Utilities Co., 501 Fifth Ave.
 Worthington Pump & Machinery
 Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pa., Carbondale

Carbondale Machine Co.

Wis., Milwaukee

Vilter Mfg. Co.

**Pumps, Automatic (see Pumps,
Air)****Pumps, Ball Valve****N. Y., New York City**

Provost Engineering Corp., 220 Broad-
 way

Ohio, Akron

U. S. Stoneware Co.

Pumps, Bilge**Ill., Aurora**

American Well Works.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. Y., Buffalo

Buffalo Steam Pump Co.

N. Y., New York City

Worthington Pump & Machinery Cor-
 poration

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Bleach Liquor*Mich., Battle Creek*

American Steam Pump Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

Worthington Pump & Machinery Corp., 115 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pumps, Bleachery (*see Pumps, Bleach Liquor*)**Pumps, Boiler Feed***Ill., Aurora*

American Well Works

Ill., Chicago

Fairbanks-Morse & Co.

Conn., Hartford

Terry Steam Turbine Co.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. J., Trenton

De Laval Steam Turbine Co.

N. Y., New York City

Ingersoll-Rand Co., 115 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pumps, Booster*Ill., Chicago*

Economy Pumping Machinery Co.,

120-126 N. Curtis St.

Pumps, Brewery*Ill., Aurora*

American Well Works

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

N. Y., New York City

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Brine*Mich., Battle Creek*

American Steam Pump Co.

N. Y., New York City

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co.

Pumps, Centrifugal*Conn., Hartford*

Terry Steam Turbine Co.

Ill., Aurora

American Well Works

Ill., Chicago

Fairbanks-Morse Co.

Lammert & Mann Co., Wood and Walnut Aves.

Ill., Quincy

Gardener Governor Co.

Mich., Battle Creek

Advance Pump & Compressor Co

American Steam Pump Co.

Union Steam Pump Co.

N. J., Baldwinville

Morris Machine Works

N. J., Cartaret

Wheeler Condenser & Engineering Co.

N. J., Perth Amboy

Chemical Pump & Valve Co., Inc.

N. J., Trenton

De Laval Steam Turbine Co.

N. Y., Baldwinville

Morris Machine Works

N. Y., Buffalo

Buffalo Steam Pump Co.

Taber Pump Co.

N. Y., New York City

Beach-Russ Co., 220 Broadway

Cameron Steam Pump Works, A. S.

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Ingersoll-Rand Co., 11 Broadway

Machinery Utilities Co., Inc., 501 5th Ave.

United Lined Tube & Valve Co., 111 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc

N. Y., Seneca Falls

Gould Mfg. Co.

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Ohio, Hamilton

Black-Clawson Co.

Pa., Philadelphia

Schutte & Koerting Co., 12th and Thompson Sts.

Wheeler Mfg. Co., C. H.

Wood Co., D. R., 400 Chestnut St.

Wis., Grand Rapids

American Carbonic Machinery Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pumps, Centrifugal, Chemetal

N. Y., L. I., Rockville Center
Nassau Valve & Pump Co., Inc.

Pumps, Centrifugal, Lead Lined

Ill., Chicago
Economy Pumping Machinery Co.,
120-126 N. Curtis St.

Pumps, Chemical (see Pumps, Acid)**Pumps, Chemical Fire**

N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Chemical (Rotary)

Mich., Petoskey
Blackmer Rotary Pump Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.

Pumps, Circulating

Ill., Aurora
American Well Works
Ind., Connersville
Connersville Blower Co.

Pumps, Creamery

Mich., Petoskey
Blackmer Rotary Pump Co.
Mo., St. Louis
Barry-Wehmiller Machinery Co.
N. Y., Seneca Falls
Gould Mfg. Co.
N. Y., New York City
Davidson Co., M. T., 155 Nassau St.

Pumps, Creosote

N. Y., New York City
Worthington Pump & Machinery
Corp., 115 Broadway

Pumps, Curtis

Ill., Batavia
U. S. Wind Engine and Pump Co., 30
Water St

Pumps, Cyanide

N. Y., New York City
Worthington Pump & Machinery
Corp., 115 Broadway

Pumps, Cycloidal Rotary

Ind., Connersville
Connersville Blower Co.

Pumps, Cylinder Oil, Hand

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood
Ave.

Pump, Deep Well

Ill., Aurora
American Well Works
Ill., Chicago
Economy Pumping Machinery Co.,
120-126 N. Curtis St
Sullivan Machinery Co., 121 S. Michi-
gan Ave.
Mich., Battle Creek
American Steam Pump Co
Union Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Cor-
poration
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Pittsburgh
Oil Well Supply Co

Pumps, Diaphragm

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d
Ave
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Diaphragm, Acid Proof

N. Y., New York City
Dorr Co., 101 Park Ave

Pumps, Dredging

Conn., Hartford
Terry Steam Turbine Co
Ill., Aurora
American Well Works

Pumps, Dry Vacuum

N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Pumps, Duplex

Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery
Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Electric Driven

- Ill., Aurora*
American Well Works
- Ill., Chicago*
Economy Pumping Machinery Co.,
120 N. Curtis St.
Fairbanks-Morse & Co.
- Mich., Battle Creek*
American Steam Pump Co.
Union Steam Pump Co.
- N. Y., Buffalo*
Buffalo Steam Pump Co.
- N. Y., New York City*
Cameron Steam Pump Works, A. S.
Duriron Castings Co., 90 West St.
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
- N. Y., Schenectady*
General Electric Co.
- N. Y., Seneca Falls*
Gould Mfg. Co.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co.

Pumps, Feed Oil, Force

- N. Y., Buffalo*
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Pumps, Filter

- Ill., Aurora*
American Well Works
- Ill., Batavia*
Sperry & Co., D. R.
- Mich., Battle Creek*
American Steam Pump Co.
Union Steam Pump Co.
- N. J., Harrison*
Shriver & Co., T., 860 Hamilton St
- N. J., Perth Amboy*
Chemical Pump & Valve Co.
- N. J., Vineland*
Doerr Glass Co.
- N. Y., Brooklyn*
Johnson Co., John, 37th and 2d Ave.
- N. Y., New York City*
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Duriron Castings Co., 90 West St.
Provost Engineering Corp., 220 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
- N. Y., Rockville Center, Long Island*
Nassau Valve & Pump Co., Inc.
- N. Y., Seneca Falls*
Gould Mfg. Co.
- Ohio, Mt. Gilead*
Hydraulic Press Mfg. Co.

Pumps, Fire

- Ill., Aurora*
American Well Works
- N. Y., New York City*
Ingersoll-Rand Co.
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Foam System and Fire Combined

- N. Y., New York City*
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Gas

- Ind., Connersville*
Connersville Blower Co.
- Mich., Battle Creek*
American Steam Pump Co.
Union Steam Pump Co.
- Mich., Detroit*
American Blower Co.
- Mich., Kalamazoo*
Clarke Fan Co.
- N. Y., New York City*
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
- N. Y., Seneca Falls*
Gould Mfg. Co.
- Ohio, Piqua*
Piqua Blower Co., 810 S. Downing St.

Pumps, Gasoline

- Ind., Ft. Wayne*
Bowser & Co., S. F.
- Iowa, Dubuque*
McDonald Mfg. Co., A. Y.
- N. Y., Seneca Falls*
Gould Mfg. Co.

Pumps, Gasoline Storage

- N. Y., New York City*
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Pumps, Geissler's, Air

- N. Y., Rochester*
Will Corporation

Pumps, Hand

- Ill., Batavia*
U. S. Wind Engine & Pump Co., 30 Water St.
- Ill., Rockford*
Eclipse Fuel Engineering Co.
- N. Y., Seneca Falls*
Gould Mfg. Co.

Pumps, High Vacuum*Ill., Chicago*Economy Pumping Machinery Co.,
120-126 N. Curtis St.**Pumps, Hydraulic Pressure***Ill., Chicago*

Fairbanks-Morse & Co.

*Mich., Battle Creek*American Steam Pump Co.
Union Steam Pump Co.*N. J., Aldena*

Watson-Stillman Co., The

*N. Y., New York City*Worthington Pump & Machinery
Corp., 115 Broadway*N. Y., Seneca Falls*

Gould Mfg. Co.

N. Y., Syracuse

Boomer & Boschert Press Co.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

*Pa., Pittsburgh*Epping-Carpenter Pump Co., 43d St.
and Alleghany Valley R. R.*Wis., Milwaukee*

Allis-Chalmers Mfg. Co.

Pumps, Irrigating*Ill., Chicago*

Fairbanks-Morse & Co.

Conn., Hartford

Terry Steam Turbine Co.

Ind., Connersville

Connersville Blower Co.

*Mich., Battle Creek*American Steam Pump Co.
Union Steam Pump Co.*N. Y., New York City*Abbe Engineering Co., 220 Broadway
Provost Engineering Corp., 220 Broadway*Wis., Milwaukee*

Allis-Chalmers Mfg. Co.

Pumps, Kerosene*Iowa, Dubuque*

McDonald Mfg. Co., A. Y.

Pumps, Laboratory*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

N. Y., Brooklyn

*Crowell Mfg. Co., 298 Taffe Pl.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

Sorensen Co., Inc., C. M.

N. Y., Schenectady

General Electric Co.

N. Y., Seneca Falls

Gould Mfg. Co.

Pa., Philadelphia

Monarch Mfg. Works, 3129 Emery St.

*Thomas Co., Arthur H., W. Washington Sq.

Pumps, Laboratory, Air*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

Pumps, Mine*Conn., Hartford*

Terry Steam Turbine Co.

Ill., Chicago

Fairbanks-Morse & Co.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery
Corp., 115 Broadway*Wi., Milwaukee*

Allis-Chalmers Mfg. Co.

Pumps, Oil*Ind., Connersville*

Connersville Blower Co.

Roots Co., P. H. & F. M.

Ind., Ft. Wayne

Bowser & Co., S. F.

Iowa, Dubuque

McDonald Mfg. Co., A. Y.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

*N. Y., Brooklyn*Improved Appliance Co., 413-415
Kent Ave.

Johnson Co., John, 37th and 2d Ave.

*N. Y., Buffalo*Sherwood Mfg. Co., 1710 Elmwood
Ave.*N. Y., New York City*

Beach Russ Co., 220 Broadway

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery
Corp., 115 Broadway*N. Y., Seneca Falls*

Gould Mfg. Co.

Ohio, Dayton

Platt Iron Works

Ohio, Salem

Deming Co.

*Wis., Milwaukee*Richardson-Phenix Co., 126 Reservoir
Ave.**Pumps, Oil and Gasoline, Self Measuring***Ind., Ft. Wayne*

Bowser & Co., Inc., F. W.

Pumps, Plunger*Ill., Aurora*

American Wells Co.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Power (*see also Specific Headings*)*Ill., Aurora*

American Well Works

Ill., Chicago

Fairbanks-Morse & Co.

Mich., Battle Creek

Advance Pump & Compressor Co.

American Steam Pump Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

*Pa., Pittsburgh*Epping-Carpenter Pump Co., 43d St.
and Alleghany Valley R. R.**Pumps, Pressure***Ind., Connersville*

Connersville Blower Works

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

Mich., Detroit

Colton Co., Arthur

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Pumps, Propeller*Pa., Philadelphia*

Quimby Engineering Co., 450 N. 10th St.

Pumps, Reciprocating*Mich., Battle Creek*

American Steam Pump Co.

Union Steam Pump Co.

N. Y., New York City

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corporation, 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Rumsey Pump Co., Ltd.

Pumps, Rotary*N. Y., Brooklyn*

Crowell Mfg. Co., 296 Taffe Pl.

N. Y., New York City

Beach-Russ Co., 220 Broadway

Ingersoll-Rand Co., 220 Broadway

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pa., Philadelphia

Wheeler Mfg. Co., C. H.

Pumps, Rotary, Oil Seal, Vacuum*Pa., York*

York Electric & Machine Co., 30-34 N. Penn St.

Pumps, Sewage*Ill., Aurora*

American Well Works

Mich., Battle Creek

American Steam Pump Co.

N. Y., Buffalo

Taber Pump Co.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Slurry*N. Y., New York City*

Smith & Co., F. L., 50 Church St.

Pumps, Slush*Mich., Battle Creek*

American Steam Pump Co.

Union Steam Pump Co.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pumps, Steam*Cal., Los Angeles*

Llewellyn Iron Works

Ga., Atlanta

Pratt Engineering & Machine Co.

Ill., Aurora

American Wells Co.

Ill., Chicago

Fairbanks Morse & Co., 900 S. Wabash Ave.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. J., East Carteret

Wheeler Condenser & Engineering Co

N. Y., Buffalo

Buffalo Steam Pump Co.

N. Y., New York City

Cameron Steam Pump Works, 11 Broadway

Ingersoll-Rand Co., 11 Broadway

Worthington Pump & Machinery Corporation, 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Rumsey Pump Co., Ltd.

Ohio, Youngstown

Tod Co.

Pa., Philadelphia

Wood & Co., R. D., 400 Chestnut St.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Vilter Mfg. Co.

Pumps, Steam, Duplex*Mich., Battle Creek*

Advance Pump & Compressor Co.

Pumps, Steam Turbine Driven*N. Y., Seneca Falls*

Gould Mfg. Co.

Pumps, Stearic Acid*N. Y., Syracuse*

Boomer & Boschert Press Co.

Pumps, Stoneware*N. Y., New York City*

General Ceramics Co., 50 Church St.

Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pumps, Stuff*N. Y., New York City*

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Sugar House*Ill., Aurora*

American Well Works

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. Y., Seneca Falls

Goulds Mfg. Co.

N. Y., New York City

Worthington Pump & Machinery Corp., 115 Broadway

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Pumps, Sulphur Fume*N. Y., New York City*

Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Tank*Conn., Hartford*

Terry Steam Turbine Co.

Ill., Chicago

American Well Works

Mich., Battle Creek

American Steam Pump Co.

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Tannery*Mich., Battle Creek*

American Steam Pump Co.

N. Y., New York City

Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Tar*Ind., Ft. Wayne*

Bowser & Co., S. F.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Triplex*Ill., Chicago*

Fairbanks-Morse & Co.

N. Y., New York City

Worthington Pump & Machinery Corp., 115 Broadway

N. Y., Seneca Falls

Gould Mfg. Co.

Pumps, Turbine*Conn., Hartford*

Terry Steam Turbine Co.

Ill., Aurora

American Well Works

N. J., Trenton

De Laval Steam Turbine Co.

N. Y., Seneca Falls

Gould Mfg. Co.

Pa., Philadelphia

Wood & Co., D. R.

Pumps, Vacuum*Cal., Oakland*

United Iron Works

Cal., San Francisco

Oliver Continuous Filter Co.

Conn., Hartford

Terry Steam Turbine Co.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.
 Economy Pumping Machinery Co.,
 120-126 N. Curtis St.

*Elmer, H. N., 53 W. Jackson Blv'd
 Fairbanks-Morse & Co., 902 S. Wabash
 Ave.

Lammert & Mann Co., Wood and Walnut Sts.

Mojonnier Bros. Co., 833 W. Jackson Blvd.

Ind., Connersville

Connersville Blower Co.

Mich., Battle Creek

American Steam Pump Co.

Union Steam Pump Co.

N. J., Carteret

Wheeler Condenser & Engineering Co.

N. Y., Brooklyn

Crowell Mfg. Co., 298 Taaffe Pl.

Guild & Garrison, 463 Kent Ave.

Hubbard's Son, Norman, 265 Water St.

N. Y., Buffalo

Buffalo Foundry & Machine Co., E.,

Ferry St. and Fillmore Ave.

Devine Co., J. P., 1366 Clinton St.

N. Y., Little Falls

Burrell & Co., D. H.

N. Y., New York City

Abbe Engineering Co., 220 Broadway

Beach-Russ Co., 220 Broadway

Blake & Knowles Steam Pump Works,
115 Broadway

Eimer & Amend, 205-211 3d Ave.

General Ceramics Co., 50 Church St.

Ingersoll-Rand Co., 11 Broadway

Jacoby, Henry E., 95 Liberty St.

Machinery Utilities Co., Inc., 501 5th
Ave.New York Air Brake Co., 165 Broad-
wayProvost Engineering Corp., 220 Broad-
way

Wing Mfg. Co., L. J., 352 W. 13th St.

Worthington Pump & Machinery
Corp., 115 Broadway*N. Y., Seneca Falls*

Gould Mfg. Co.

Ohio, Akron

U. S. Stoneware Co.

Ohio, Sandusky

Sandusky Foundry & Machine Co.

Pa., Chester

Wetherill & Co., Robt.

Pa., Philadelphia

Wheeler Mfg. Co., C. H.

*Pa., Philadelphia*Stokes Machine Co., F. J., 17th and
Cambria Sts.

Wheeler Mfg. Co., C. H.

Wis., Milwaukee

Vilter Mfg. Co.

Pumps, Vacuum Heating*N. Y., New York City*

Beach-Russ Co., 220 Broadway

Pumps, Waterworks*Conn., Hartford*

Terry Steam Turbine Co.

Md., Baltimore

Baltimore Cooperage Co., The

Pumps, Well, Artesian*Ill., Aurora*

American Well Works

Md., Baltimore

Baltimore Cooperage Co., The

Punches*Conn., New Britain*

Stanley Rule & Level Co.

Mass., Athol

Starrett Co., L. S.

Mich., Detroit

Colton Co., Arthur

R. I., Providence

Brown & Sharpe Mfg. Co.

Purifiers, Fumes*Ill., Chicago*Ilg Electric Ventilating Co., 131 Whit-
ing St.*Md., Baltimore*

Bartlett-Hayward Co.

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.

Sturtevant Co., B. F.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Mich., Detroit

American Blower Co.

Mich., Kalamazoo

Clarage Fan Co.

N. Y., Buffalo

Buffalo Forge Co.

N. Y., New York City

Carrier Engineering Corp.

Ohio, Cleveland

Gas Machinery Co.

Purifiers, Gas

- Ill., Chicago*
 Ilg Electric Ventilating Co., 131 Whit-
 ing St.
- *Ind., Fort Wayne*
 Western Gas Construction Co.
- Md., Baltimore*
 Bartlett-Hayward Co.
- Mass., Boston*
 Badger & Sons Co., E. B., 63-75 Pitts-
 St.
- Sturtevant Co., B. F.
- Mass., Fall River*
 Scott & Co., Ernest, P. O. Box 259
- Mich., Detroit*
 American Blower Co.
- N. J., Trenton*
 DeLaval Steam Turbine Co
- Mich., Kalamazoo*
 Clarage Fan Co.
- N. Y., Buffalo*
 Buffalo Forge Co.
- N. Y., Camden*
 Webster & Co., Warren
- N. Y., New York City*
 Carrier Engineering Corp., 39 Court-
 landt St.
- Combustion Engineering Corp., 11
 Broadway
- Dicks Slosson Co., Inc., 302 Broadway
- Holly Pneumatic Systems., Inc., 145
 W. 45th St
- Van Emden Co. H., 145 W. 45th St
- Ohio, Cleveland*
 Gas Machinery Co.
- Pa., Philadelphia*
 Wood & Co., D. R.
- Wis., Milwaukee*
 Vilter Mfg. Co., 824 Clinton St.

Putty Machinery

- Mich., Saginaw*
 Werner & Pfleiderer Co., 1260 N. Ni-
 agara St
- Ohio, Cincinnati*
 Day Co., J. H., 1144 Harrison Ave

Pyrex Glass

- Ill., Chicago*
 *Laboratory Materials Co., 640 E.
 71st St.
- N. Y., Corning*
 Corning Glass Works
- Pa., Philadelphia*
 *Thomas Co., Arthur H., W. Washing-
 ton Sq.

Pyrometer Shields, Graphite

- N. J., Jersey City*
 Dixon Crucible Co., Joseph

Pyrometers

- Conn., Waterbury*
 Bristol Co.
- Ill., Chicago*
 *Central Scientific Co., 460 E. Ohio St.
- Mass., Boston*
 American Steam Gauge & Valve Mfg.
 Co.
- Crosby Steam Gauge & Valve Mfg. Co.
- Mass., Foxboro*
 Foxboro Co., Inc.
- Mich., Detroit*
 Hoskins Mfg. Co., 453 Lawton Ave.
- Precision Instrument Co.
- N. J., Trenton*
 Pyroelectric Instrument Co., 636-640
 E. State St.
- N. Y., Brooklyn*
 Tagliabue & Co., J. C., 18 33d St.
- N. Y., New York City*
 Connolly Iron Sponge & Governor Co.,
 227 Fulton St.
- *Eimer & Amend, 3d Ave., 18th to 19th
 Sts.
- Engelhard, Chas., 30 Church St.
- Shore Instrument & Mfg. Co., Inc.,
 557 W. 22d St.
- Thermal Syndicate, Ltd., 50 E. 41st
 St.
- Uehling Instrument Co., Empire Bldg.
- Wilson-Maculen Co., 781 E. 142d St.
- N. Y., Rochester*
 Taylor Instrument Cos.
- Pa., Philadelphia*
 Biddle, James G.
- Brown Instrument Co.
- Leeds & Northrup Co., 4921 Stenton
 Ave.
- Precision Thermometer & Instrument
 Co.
- Queen-Gray Co., 618 Chestnut St.
- Thwing Instrument Co., 3333 Lan-
 easter Ave.
- *Thomas Co., Arthur H., W. Washing-
 ton Sq.
- Pa., Pittsburgh*
 Gibb Instrument Co.
- Scientific Materials Co., 719 Forbes St.
- Pyroscopes**
- N. Y., New York City*
 Shore Instrument & Mfg. Co., Inc.,
 557 W. 22d St.
- Quartz Fibers**
- N. J., Trenton*
 Pyroelectric Instrument Co., 636-640
 E. State St.

Quartz Glass*Ill., Chicago*

Schaar & Co., 1025 S. State St.

N. Y., New York City

Engelhard, Charles, 30 Church St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Quartz Glass, Pure Transparent*N. Y., New York City*

Engelhard, Charles, 30 Church St.

Quartz Lamps*N. J., Hoboken*

Cooper Hewitt Electric Co., 8th and Grand Sts.

Quartz Sand*Ill., Chicago*

United States Silica Co., 419 People's Gas Bldg.

Quartz Ware (see Silica Ware)**Racks, Drying***Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

Racks, Foundry Core*Ill., Aurora*

Lyon Metallic Mfg. Co.

Racks, Metal*Ill., Aurora*

Lyon Metallic Mfg. Co.

Mass., Framingham

Manufacturing Equipment & Engraving Co.

Racks, Test Tube*N. Y., New York City*

Estes & Sons, E. B., 362 5th Ave.

Radiators, Atmospheric*N. Y., Brooklyn*

Improved Appliance Co., 413-419 Kent Ave.

Radiators, Blast*N. Y., Brooklyn*

Improved Appliance Co., 413-419 Kent Ave.

Radioscopes*N. Y., New York City*

Palo Co., 90 Maiden Lane

Railways, Industrial*Colo., Denver*

Mine & Smelter Supply Co.

Ill., Chicago

Link-Belt Co., W. 39th and Stewart Aves.

N. Y., New York City

Easton Car & Construction Co., 30 Church St.

N. Y., West New Brighton

Hunt Co., C. W.

Ohio, Cleveland

Lakewood Engineering Co.

Pa., Koppel

Orenstein-Arthur Koppel Co.

Readers*N. Y., New York City*

American Thermo-Ware Co., 16 Warren St.

Reamers*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

Ohio, Cleveland

Cleveland Twist Drill Co.

Receivers, Acid*Ill., Monmouth*

Western Stoneware Co.

Mass., Boston

Eastern Clay Goods Co., 141 Milk St.

N. J., Newark

Acid Proof Iron Products Co., Inc.

N. Y., New York City

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Koven & Bro., L. O., 50 Cliff St.

Thermal Syndicate, Ltd., 50 E. 41st St.

N. Y., Rochester

Pfaudler Co., The

Ohio, Akron

United States Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Ohio, Elyria

Elyria Enameled Products Co.

Receivers, Acid Proof, Stoneware*Ill., Monmouth*

Western Stoneware Co.

Mass., Boston

Eastern Clay Goods Co., 141 Milk St.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Weck, A. J.

Ohio, East Akron

Knight, Maurice A.

Receivers, Air*Ill., Chicago*

Sullivan Machinery Co., People's Gas Bldg.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*N. Y., New York City*Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway*Ohio, Hamilton*

Hamilton Copper & Brass Works

Receivers, Chlorine, Stoneware*N. Y., New York City*

Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Reclaimers*Mass., Fall River*

Scott & Co., Ernest, P. O. Box 259

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Reclaimers, Centrifugal Oil*N. Y., New York City*

De Laval Separator Co., 165 Broadway

Recorders, Combustion*Mich., Detroit*

Precision Instrument Co.

*N. Y., New York City*Sarco Co., Inc., Woolworth Bldg.
Uehling Instrument Co., 71 Broadway**Recorders, CO₂***Ill., Chicago*

Vulcan Fuel Economy Co., 230 S. La Salle St.

Mass., Foxboro

Foxboro Co., Inc.

Mich., Detroit

Precision Instrument Co., Fort and Wayne Sts.

*N. Y., New York City*Sarco Co., Inc., Woolworth Bldg.
Uehling Instrument Co., 71 Broadway**Recorders, Differential***N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18 33d St.

Recorders, Draft*N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18 33d St.

N. Y., New York City

Uehling Instrument Co., 71 Broadway

Pa., Pittsburgh

Bacharach Industrial Instrument Co., 422 1st Ave.

Recorders, Electric*Conn., Waterbury*

Bristol Co.

Mass., Foxboro

Foxboro Co.

Recorders, Humidity*N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18 33d St.

Recorders, Light Pressure*Mass., Foxboro*

Foxboro Co., Inc.

N. Y., Brooklyn

Tagliabue Mfg. Co., J. C., 18 33d St.

N. Y., New York City

Uehling Instrument Co., 71 Broadway

Pa., Pittsburgh

Bachrach Industrial Instrument Co., 422 1st Ave.

Recorders, Pressure (*see Recorders, Light Pressure*)**Recorders, Tank***N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18 33d St.

Wis., Madison

Gisholt Machine Co.

Recorders, Temperature*Conn., Waterbury*

Bristol Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co.

Bailey Meter Co., 141 Milk St.

Crosby Steam Gauge & Valve Co., 40 Central St.

Mass., Foxboro

Foxboro Co., Inc.

Mich., Detroit

Precision Instrument Co.

N. Y., Brooklyn

Green, Henry J., 1191 Bedford Ave.

Schaeffer & Budenberg Mfg. Co.

Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City

DuViver, Ernest H., 30 Church St.

Slocum, Avram & Slocum Laboratories, Inc.

Sarco, Inc., Woolworth Bldg.

Uehling Instrument Co., 2011 Empire Bldg.

N. Y., Rochester

Taylor Instrument Cos.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Mechanicsburg

Scientific Instrument & Electric Machine Co.

Pa., Philadelphia

Brown Instrument Co.

Electric Tachometer Corp., Perry Bldg.

Hydro Mfg. Co., 320 Bullitt Bldg.

Thwing Instrument Co., 436 N. 5th St.

Wis., Madison

Gisholt Machine Co.

Recorders, Time *(see Recorders, Temperatures)*

Recorders, Vacuum

- N. Y., Brooklyn*
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Uehling Instrument Co., 71 Broadway
Pa., Pittsburgh
*Scientific Materials Co., 719 Forbes St.

Recorders, Water Level

- N. Y., Brooklyn*
Tagliabue Mfg. Co., C. J., 18 33d St.

Recovery Plants *(see also Acid Recovery Plants, and Solvent Recovery Apparatus)*

- Colo., Denver*
Mine & Smelter Supply Co.
Md., Baltimore
Bartlett Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Jersey City
Koven & Bro., L. O.
N. Y., Brooklyn
Johnson Co., John, 2d Ave. and 37th St.
N. Y., Buffalo
Buffalo Foundry & Machine Co
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
De Laval Separator Co., 165 Broadway
Foundation Co., The, Woolworth Bldg.
General Ceramics Co., 50 Church St.
International Process Co., 5 Beckman St.
Kalbpery Corporation, 31 Union Square, W.
Koven & Bro., L. O., 50 Church St.
Sanborn Evaporator Co., 50 Broad St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Sharpless Specialty Co.

Rectifiers

- Ill., Chicago*
Valhalla Co., Valhalla Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Roos' Son, August, 421-429 E. 91st St.
N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.
Ohio, Cincinnati
Vulcan Copper Works Co., 122 Sycamore Ave.

Reducers

- Mass., Boston*
Badger & Sons Co., E. B., 63 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Durrion Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Reducers, Iron Pipe

- Conn., Branford*
Malleable Iron Fittings Co.

Reductors

- N. Y., Rochester*
Will Corporation

Refineries, Wood Tar

- Pa., Philadelphia*
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Reflector Fixtures

- Ill., Chicago*
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Reflectors

- Ill., Chicago*
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Reflectors, Porcelain Enameled Steel

- Ill., Chicago*
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Refractometers

- N. Y., Rochester*
Bausch & Lomb Optical Co., St. Paul St.
•*Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Refractories

- Cal., San Francisco*
Braun-Knecht-Heimann, 576 Mission St.
Colo., Denver
Denver Fire Clay Co.
Colo., Golden
Herold China & Pottery Co.
Ill., Danville
Western Brick Co.
Mass., Cambridge
Exlon Co., The, 156 6th St.
Mass., Worcester
Norton Co.
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
Mo., St. Louis
Laclede Christy Clay Fire Products Co.
N. Y., New York City
Celite Products Co., 11 Broadway
Mine & Smelter Supply Co., Inc., 42 Broadway
Robinson Clay Product Co., Flatiron Bldg.
N. Y., Niagara Falls
Carborundum Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 109 N. 19th St.
Harbison-Walker Refractories Co.
Lavino & Co., E. J., Bullitt Bldg
- Refractories, Impervite**
N. Y., New York City
Engelhard, Chas., 30 Church St.
- Refrigerating Machinery**
Conn., Hartford
Automatic Refrigerating Co.
Del., Wilmington
Remington Machine Co.
Ga., Columbus
Columbus Iron Works Co.
Ky., Louisville
National Foundry & Machine Co.
Vogt Machine Co., Henry
Mo., St. Louis
Brecht Co.
N. J., New Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co., foot E. 138th St.

- Ohio, Akron*
Biggs Boiler Works Co., Bank and Williams St. and B. & O. R. R.
Ohio, Cincinnati
Triumph Ice Machine Co.
Ohio, Cleveland
Phoenix Ice Machine Co., 2711 Church Ave.
Ore., Portland
Harris Ice Machine Works, Inc., 174 E. Water St.
Pa., Carbondale
Carbondale Machine Co.
Pa., York
York Mfg. Co.
Wash., Spokane
Armstrong Machinery Co., 3201-3219 E. Riverside St.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Refrigerating Safety Devices

- N. Y., New York City*
Schwenker Inc., W. M., 340-344 E. 92d St.

Refrigerating Supplies

- N. Y., New York City*
Schwenker, Inc., W. M., 340-344 E. 92d St.

Refrigerating Systems, Ammonia

- N. Y., New York City*
Equitherm Control Corp., 30 Church St.

Refrigerating Systems, Brine

- N. Y., New York City*
Equitherm Control Corp., 30 Church St.

- Ohio, Cincinnati*
Triumph Ice Machine Co.

- Pa., Carbondale*
Carbondale Machine Co.

- Wis., Milwaukee*
Vilter Mfg. Co.

Regulators, Automatic

- N. Y., New York City*
Engelhard, Chas., 30 Church St.

Regulators, Automatic Pressure

- N. Y., Brooklyn*
Taghabue Mfg. Co., C. J., 18-88 33d St.

Regulators, Automatic Temperature

- N. Y., Brooklyn*
Taghabue Mfg. Co., C. J., 18-88 33d St.

Regulators, Boiler Feed Water*Mass., Boston*

American Steam Gauge & Valve Mfg. Co.

N. Y., Brooklyn

Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City

Sarco Co., Inc., Woolworth Bldg.

Regulators, Condensate*N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18-88 33d St.

Regulators, Controller*N. Y., New York City*

Western Electric Co., 195 Broadway

N. Y., Schenectady

General Electric Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Regulators, Damper*Ill., Chicago*

American Radiator Co.

Iowa, Marshalltown

Fisher Governor Co.

Mass., Boston

d'Este Co., Julian, 26 Canal St.

N. Y., Brooklyn

Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City

Sarco Co., Inc., 229 Broadway

N. Y., Rochester

Taylor Instrument Cos.

Wis., Milwaukee

Johnson Service Co

Regulators, Dry Kiln*Mass., Foxboro*

Foxboro Co., Inc.

N. Y., New York City

Sarco Co., Inc., 229 Broadway

Regulators, Electric (*see Regulators, Controller*)**Regulators, Feed Water** (*see Regulators, Boiler Feed Water*)**Regulators, Furnace***N. Y., New York City*

Gerdes & Co., Inc., 40 Church St.

Rockwell Co., W. S., 50 Church St.

Sarco Co., Inc., Woolworth Bldg.

Regulators, Gas*Conn., Bridgeport*

Sprague Meter Co.

N. J., Jersey City

Davis-Bournonville Co.

N. Y., Brooklyn

Improved Appliance Co., 413-419 Kent Ave.

N. Y., New York City

Air Reduction Sales Co., Inc., 120 Broadway

Regulators, Heat (*see Regulators, Temperature*)**Regulators, Heat Automatic***N. Y., New York City*

American Gas Furnace Co., 24 John St.

Regulators, Hot Water*Ill., Chicago*

American Radiator Co.

Iowa, Marshalltown

Dunham Co.

Fisher Governor Co.

N. Y., Brooklyn

Tagliabue Mfg. Co., C. J.

N. Y., New York City

Rockwell Co., W. S., 165 Broadway

Sarco Co., Inc., Woolworth Bldg.

Ohio, Cleveland

Bishop & Babcock Co.

Wis., Milwaukee

Johnson Service Co.

Regulators, Humidity*Ill., Chicago*

Drying Systems, Inc., 320 Michigan Ave

Hlg Electric Ventilating Co., 131 Whit-
ing St.*Mass., Boston*

Sturtevant Co., B. F., Hyde Park

*N. Y., New York City*Carrier Engineering Corporation, 39
Courtlandt St.*N. Y., Schenectady*

General Electric Co.

*Pa., Philadelphia*Braemer Air Conditioning Corpora-
tion, LaFayette Bldg.*Wis., Milwaukee*

Johnson Service Co.

Regulators, Liquid Level*N. Y., Brooklyn*

Tagliabue Mfg. Co., 18-88 33d St.

Regulators, Motor Speed*Wis., Milwaukee*Cutler-Hammer Mfg. Co., 12th St. and
St. Paul Ave.

Regulators, Pressure*Iowa, Marshalltown*

Fisher Governor Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., Brooklyn

Tagliabue Mfg. Co., C. J., 33d and 3d Ave.

N. Y., New York City

Sarco Co., Inc., Woolworth Bldg.

N. Y., Rochester

Taylor Instrument Cos.

Ohio, Cleveland

Bishop & Babcock Co.

Wis., Milwaukee

Johnson Service Co.

Regulators, Pressure, Gas*N. Y., Rochester*

Wilnot Castle Co., 800 St. Paul St.

Ohio, Cleveland

Lennox Chemical Co., The, 1201 E. 55th St.

Regulators, Refrigeration*Neb., Omaha*

Baker Ice Machine Co.

N. Y., New York City

Sarco Co., Inc., Woolworth Bldg.

Wis., Milwaukee

Johnson Service Co.

Regulators, Steam Pressure (see *Regulators, Pressure*)**Regulators, Tank** (see *Regulators, Hot Water*)**Regulators, Temperature** (see also *Regulators, Humidity*)*Conn., Waterbury*

Bristol Co.

Ill., Chicago

American Radiator Co., 816 S. Michigan Ave.

Powers Regulator Co., 5 S. Wabash Ave.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., Brooklyn

Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.

N. Y., New York City

Sarco Co., Inc., Woolworth Bldg.

N. Y., Rochester

Taylor Instrument Cos.

Pa., Philadelphia

Braemer Air Conditioning Co., Lafayette Bldg.

Brown Instrument Co.

R. I., Providence

General Fire Extinguisher Co.

Wis., Milwaukee

Johnson Service Co.

Regulators, Vacuum*Ind., Connersville*

Connersville Blower Co.

Iowa, Marshalltown

Fisher Governor Co.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., New York City

Sarco Co., Inc., Woolworth Bldg.

Regulators, Water Pressure (see *Regulators, Pressure*)**Reservoirs, Aerating***Mass., Boston*

Spray Engineering Co., 93 Federal St.

Reservoirs, Air Brake*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Resistances*N. J., Trenton*

Pyroelectric Instrument Co., 148 E. State St.

Resorcin Apparatus and Plants*N. Y., Buffalo*

Devine Co., J. P.

Respirators*Ill., Chicago*

Chicago Eye Shield Co., 2300 Warren Ave.

Life Saving Device Co., 564 W. Monroe St.

Ind., South Bend

Cover, H. S., P. O. Box 404

N. Y., Elmira

American-La France Fire Engine Co., Inc.

N. Y., New York City

Abbé, Paul O., 30 Broad St.

American Thermo-Ware Co., 16 Warren St.

Bernard & Co., F. J., 70 Murray St.

Connelly Iron Sponge & Governor Co., 227 Fulton St.

*Eimer & Amend, 205-211 3d Ave.

Hayward & Co., S. F., 250 W. 54th St.

Multi-Metal Separating Screen Co., 74 E. 131st St.

National Helmet Co., 39 Park Pl.

National Resuscitating Apparatus Co., Inc., 39 E. 19th St.

Schwenker, Inc., W. M., 340-344 E. 92d St.

Respirators—cont.*Ohio, Akron*

Goodrich Co., B. F., S. Main St.

Pa., Philadelphia

Wyeth & Bro., Inc., J., 11th and Washington Ave.

Pa., Pittsburgh

Draeger Oxygen Apparatus Co., 422 1st Ave.

Resuscitators*Ill., Chicago*

*Elmer, H. N., 53 W. Jackson Blvd.

Life Saving Devices Co., 564 W. Monroe St.

N. Y., New York City

National Resuscitating Apparatus Co., Inc., The, 39 E. 19th St.

Retorts, Acid*Ill., Batavia*

Sperry & Co., D. R.

Mich., Muskegon

Muskegon Boiler Works, Eighth St.

N. J., Burlington

Stuart & Peterson Co.

United States Cast Iron, Pipe & Foundry Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Farrar & Trefts

Sowers Mfg. Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Sidio Co. of America, Inc., 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pa., Philadelphia

Blair Campbell & McLean, Colonial Trust Bldg.

Kutztown Foundry & Machine Co., Morris Bldg.

Stokes Machine Co., F. J.

Pa., Williamsport

Keeler Co., E.

Retorts, Carbonization*N. J., Perth Amboy*

Didier-March Co.

Retorts, Cast Iron*Colo., Denver*

Colorado Iron Works Co.

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Swenson Evaporator Co., Monadnock Bldg.

Ind., Fort Wayne

Western Gas Construction Co.

N. J., Burlington

Stuart & Peterson Co.

U. S. Cast Iron Pipe & Foundry Co.

Mass., Boston

Badger & Sons Co., R. E., 63-75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

Mich., Detroit

Detroit Heating & Lighting Co.

Mich., Muskegon

Muskegon Boiler Works, Eighth St.

N. C., Charlotte

Chemical Construction Co.

N. Y., Brooklyn

Improved Appliance Co., 413-415 Kent Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co., 26 Winchester Ave.

Sowers Mfg. Co., 1300 Niagara St.

Zarembo Co., Niagara Life Ins. Co. Bldg.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Duriron Castings Co., 90 West St.

Roos' Sons, August

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Philadelphia

Blair Campbell & McLean, Inc., Colonial Trust Bldg.

Stokes Machine Co., F. J.

Wood & Co., D. R.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Valley Iron Works

Retorts, Charcoal*Mich., Muskegon*

Muskegon Boiler Works, Eighth St.

Retorts, Clay*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Retorts, Direct Heat, Shelf*N. Y., Buffalo*

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Retorts, Glass (*see also Laboratory Apparatus and Equipment*)

- N. J., Vineland*
Doerr Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Retorts, Graphite

- N. J., Jersey City*
Dixon Crucible Co., Joseph
N. J., Trenton
Bartley Crucible Co., J.

Retorts, Nitric (*see Retorts, Acid*)

Retorts, Platinum

- N. J., Newark*
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., J., Platinum Works

Retorts, Steel

- Ill., Batavia*
Sperry & Co., D. R.
Ind., East Chicago
Graver Tank Works, Wm
N. J., Burlington
Stuart & Peterson Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Farrar & Trefts
Sowers Mfg. Co.
Trout Co., H. G., 226 Ohio St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Wood & Co., D. R.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Retorts, Stoneware (*see Retorts, Clay*)

Retorts, Sulphuric (*see Retorts, Acid*)

Revolutors

- Ill., Chicago*
Link-Belt Co., W. 39th and Stewart Ave.
N. J., Jersey City
Revolutor Co., 344-352 Garfield Ave.

Rheostats

- Ill., Chicago*
Central Scientific Co., 460 E. Ohio St.
National Electric Controller Co., 154 Whiting St.

Mass., Boston

- Mason Regulator Co., 127 Federal St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
N. Y., Schenectady
General Electric Co.

Ohio, Cleveland

- Electric Products Co., 10514 Dupont Ave., N. E.

Pa., Philadelphia

- Crucible Steel Co. of America, 30th and Smallman Sts.
Wirt Electric Specialty Co., Armat and Lena Sts.

Pa., Pittsburgh

- Westinghouse Electric & Mfg. Co.

Rhotanium Ware

- N. Y., New York City*
Palo Co., 90 Maiden Lane

Rings, Acid

- Ga., Atlanta*
Hood Brick Co., B. Miffin
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Wash., Tacoma
Far West Clay Co., 224-228 Tacoma Bldg.

Rings, Metal

- N. Y., New York City*
*Rebele, L. J., 50 Church St.

Rings, Piston

- Md., Baltimore*
Bartlett Hayward Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway

Rings, Rubber

- Conn., Bridgeport*
Canfield Rubber Co.
Mass., Cambridge
Boston Woven Hose & Rubber Co.
Mass., Revere
Revere Rubber Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 121 Duane St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.

Rinsers (*see Bottle Machinery*)**Roasters** (*see also Furnaces, Ovens*)

N. Y., Brooklyn
Improved Appliance Co., 413-419
Kent Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Roasting, Reverbrating

Colo., Denver
Colorado Iron Works Co.

Rods

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Akron
Goodrich Co., B. F.

Rods, Brass

Conn., Waterbury
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills,
95 Clark Ave.

Rods, Bronze

Conn., Waterbury
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills,
95 Clark Ave.

Rods, Condensite Celoron

Pa., Bridgeport
Diamond State Fibre Co.

Rods, Copper

Mich., Detroit
Detroit Copper & Brass Rolling Mills
95 Clark Ave.

Rods, Drill, Polished

N. Y., New York City
Swedish Iron & Steel Corp., 12 Platt
St.

Rods, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boul-
vard
N. Y., Corning
Corning Glass Works

Rods, Laminated

Ill., Chicago
Redmanol Chemical Products Co., 636
W. 22d St.

Rods, Marine Bronze

Conn., Waterbury
Randolph-Clowes Co., The

Rods, Muntz Metal

Conn., Waterbury
Randolph-Clowes Co., The

Rods, Nickel

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Rods, Pumps

Md., Baltimore
Baltimore Cooperage Co., The

Rods, Rubber

Conn., Bridgeport
Canfield Rubber Co.
Mass., Cambridge
Boston Woven Hose & Rubber Co.
Mass., Revere
Revere Rubber Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127
Duane St
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.

Rods, Vulcanized Fibre

Pa., Bridgeport
Diamond State Fibre Co.

Rolls, Chilled

Conn., Ansonia
Farrell Foundry & Machine Co.
Ky., Louisville
Vogt Machine Co., Henry
Ohio, Youngstown
Youngstown Foundry & Machine Co.
Pa., Carbondale
Carbondale Machine Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Rolls, Crushing

Cal., Los Angeles
Lane Mill & Machinery Co.
Colo., Denver
Colorado Iron Works Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart
Ave.
Ill., Chicago
Chalmers & Williams, Inc.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.

Rolls, Crushing—cont.

- Mich., Saginaw*
Werner & Pfeiderer Co., Inc., 1260 N. Niagara St.
- *N. Y., New York City*
Abbe Engineering Corp., 220 Broadway
Buchanan Co., Inc., C. G., 90 West St.
*K.-B. Pulverizer Co., 70 Worth St.
Machinery Utilities Co., Inc., 501 5th Ave.
- Ohio, Cleveland*
Bartlett & Snow Co., C. O.
- Ohio, Columbus*
Jeffrey Mfg. Co.
- Ohio, Tiffin*
Webster Mfg. Co.
- Pa., Philadelphia*
Pennsylvania Crusher Co., Girard Bldg.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co.

Rolls, Pulverizing (see Rolls, Crushing)**Rolls, Sheeting, for Pastes, Dough**

- Mich., Saginaw*
Werner & Pfeiderer Co., Inc., 1260 N. Niagara St.
- Roofing, Asphalt**
Mass., East Walpole
Bird & Son
Mo., St. Louis
Certain-teed Products Corp.
N. Y., New York City
Barrett Co., Whitall Bldg.
Johns-Manville Co., H. W., 296 Madison Ave.
Texas Co., 17 Battery Pl.

- N. Y., Syracuse*
Semet-Solvay Co.
- N. Y., Tonawanda*
National Roofing Co.
- Ohio, Lockland*
Carey Mfg. Co., Philip
- Pa., Ambler*
Keasby & Mattison Co.
- Pa., Philadelphia*
Barber Asphalt Paving Co., Land Title Bldg.
- Pa., Valley Forge*
Ehret Magnesia Mfg. Co.

Roofing, Rex Flintkote

- Mass., Boston*
Flintkote Mfg. Co., 88 Pearl St.

Rooms, Incubating

- Ill., Chicago*
Chicago Surgical & Electrical Co., 314 W. Superior St.

Rope Drives

- Ill., Chicago*
Caldwell & Sons Co., H. W., 17th and Western Aves.
- Ohio, Tiffin*
Webster Mfg. Co.
- Pa., Philadelphia*
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Rope, Rawhide

- N. Y., New York City*
Schieren Co., Charles A., 30-38 Ferry St.

Rope, Manila

- N. Y., New York City*
Waterbury Co., 63 Park Row

Rope, Sisal

- N. Y., New York City*
Waterbury Co., 63 Park Row

Rope, Wire

- N. J., Trenton*
Roebling's Sons Co., John
- N. Y., New York City*
Waterbury Co., 63 Park Row

Rubber Cement Machines

- Conn., Derby*
Birmingham Iron Foundry
- Mass., Boston*
American Tool & Machine Co.
- Mich., Saginaw*
Werner & Pfeiderer Co., 1260 N. Niagara St.
- N. J., Trenton*
Crossley Machine Co.
- N. Y., New York City*
Abbe Engineering Co., 220 Broadway

Rubber Composition

- Ohio, Akron*
Goodrich Co., B. F.

Rubber Goods

- N. Y., New York City*
Scientific Utilities Co., Inc., 84 E. 10th St.
- Watters Laboratories, Cons., 55 5th Ave.

Rubber, Hard

- Mass., Andover*
Tver Rubber Co.
- N. J., New Brunswick*
India Rubber Co.
- N. J., Trenton*
Stokes Rubber Co., Jos.
- N. Y., New York City*
American Hard Rubber Co., 9 Mercor St.
- U. S. Rubber Co., 1790 Broadway
- Ohio, Akron*
Goodrich Co., B. F., The

Rubber Mill Machinery*Conn., Ansonia*

Farrell Foundry & Machine Co.

Conn., Derby

Birmingham Iron Foundry

Mass., Boston

American Tool & Machine Co.

Mich., Saginaw

Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.

N. J., Trenton

Crossley Machine Co.

N. Y., New York City

American Process Co., 68 William St.

Abbe Engineering Co., 220 Broadway

Ohio, Akron

Williams Foundry & Machine Co.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Wellman-Seaver-Morgan Co.

Pa., Philadelphia

Southwark Foundry & Machine Co.

Rubber Reclaiming Machinery*N. Y., New York City*

American Process Co., 68 William St.

Rubber, Sheet*N. Y., New York City*

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Rubber Solution Machines*Mass., Boston*

American Tool & Machine Co.

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

Rubber Testing Apparatus*Pa., Pittsburgh*

Scientific Materials Co., 711-719 Forbes St.

Rubber Washing Machines*Mass., Boston*

American Tool & Machine Co.

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

Saccharimeters*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., Brooklyn

Tagliabue Mfg. Co., C. J., 18 33d St.

N. Y., New York City

Bernard & Co., F. J., 70 Murray St.

N. Y., Rochester

Bausch & Lomb Optical Co., St. Paul St.

Ill., Chicago

Wagner, Carl H., 1944 N. Albany Ave.

Safes, Amalgam*Colo., Denver*

Colorado Iron Works Co., 33d and Wynkoop Sts.

Safety Devices (*see also Specific Headings*)*N. Y., New York City*

Hayward & Co., S. F., 250 W. 54th St.

Salt Machinery*Ill., Chicago*

Stroud & Co., E. H., Fullerton Bldg.

Mich., Saginaw

Willcox Engineering Co.

Pa., Wilkes-Barre

Vulcan Iron Works

Samplers, Ore (*see Mining Machinery*)**Samplers, Tailings** (*see Mining Machinery*)**Sand Blast Accessories***Md., Hagerstown*

Pangborn Corp.

Sand Blast Apparatus*Ill., Chicago*

Mott Sand Blast Co., 26 S. Clinton St.

Md., Hagerstown

Pangborn Corp.

N. Y., New York City

American Foundry Equipment Co., 52 Vanderbilt Ave.

De La Vergne Machine Co., 1123 E. 138th St.

Ohio, Cincinnati

Macleod Co., Bogen St.

Sand Blast Rooms*Ill., Chicago*

Mott Sand Blast Co., 26 S. Clinton St.

Md., Hagerstown

Pangborn Corp.

N. Y., New York City

American Foundry Equipment Co., 52 Vanderbilt Ave.

Scales, Analytical (*see Balances, Analytical*)**Scales, Assay** (*see Balances, Assay*)

Scales, Automatic*Ill., Chicago*

Fairbanks-Morse & Co., 900 S. Wabash Ave.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

Mich., Saginaw

Werner & Pfleiderer Co., 1260 N. Niagara St.

N. J., Newark

Automatic Weighing Machine Co., 134-140 Commerce St.

N. J., Passaic

Richardson Scale Co.

N. Y., New York City

American Kron Scale Co., 430 E. 53d St.

Fairbanks Co., 416 Broome St.

Howe Scale Co., 341 Broadway

Ohio, Toledo

Toledo Scale Co.

Scales, Automatic Liquid*N. Y., New York City*

Simmons Co., John, 110 Center St.

Scales, Charging Crane*N. Y., New York City*

American Kron Scale Co., 430 E. 53d St.

Scales, Conveyor*Mass., Boston*

Sturtevant Mill Co.

*N. Y., New York City*Conveying Weigher Co., 90 West St.
Electric Weighing Co., 180 13th St.**Scales, Crane***N. Y., New York City*

American Kron Scale Co., 430 E. 53d St.

Scales, Dairy*N. Y., New York City*

Torsion Balance Co., 92 Reade St.

Scales, Dormant*Mass., Boston*

Sturtevant Mill Co.

N. Y., New York City

American Kron Scale Co., 430 E. 53d St.

Scales, Drug*N. Y., New York City*

Torsion Balance Co., 92 Reade St.

Scales, Fluid Pressure*Mass., Boston*

Crosby Steam Gage & Valve Co., 40 Central St.

Sturtevant Mill Co.

Scales, Hanging Pan*N. Y., New York City*

American Kron Scale Co., 430 E. 53d St.

Scales, Hopper*N. Y., New York City*

American Kron Scale Co., 430 E. 53d St.

Scales, Industrial (*see also Scales, Automatic*)*Mass., Boston*

Sturtevant Mill Co.

N. Y., Buffalo

Buffalo Scale Co., Inc., 1200 Niagara St.

Scales, Laboratory (*see Balances*)**Scales, Mine***Ill., Chicago*

Streeter-Amet Weighing & Recording Co., 4101-5 Ravenswood Ave.

Mass., Boston

Sturtevant Mill Co.

Scales, Monorail*Mass., Boston*

Sturtevant Mill Co.

Scales, Platform*Mass., Boston*

Sturtevant Mill Co.

N. Y., Buffalo

Buffalo Scale Co., Inc., 1200 Niagara St.

N. Y., New York City

Chatillon & Sons, John, 85 Cliff St.

Fairbanks Co., 416 Broome St.

Howe Scale Co. of N. Y., 341 Broadway

Pa., Pittsburgh

Standard Scale & Supply Co., 1631 Liberty Ave.

Scales, Portable*N. Y., New York City*

American Kron Scale Co., 430 E. 53d St.

Scales, Railroad*Ill., Chicago*

Streeter-Amet Weighing & Recording Co., 4101-5 Ravenswood Ave.

Mass., Boston

Sturtevant Mill Co.

N. Y., Buffalo

Buffalo Scale Co., Inc., 1200 Niagara St.

Scales, Tank*N. Y., Buffalo*

Buffalo Scale Co., The, 1200 Niagara St.

Scales, Textile

N. Y., New York City
Torsion Balance Co., 92 Reade St.

Scales, Water

Mich., Saginaw
Werner & Pfeiderer Co., 1260 N. Niagara St.

Scientific Instruments (*see Apparatus. See also Specific Headings*)

Scleroscopes

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Shore Instrument & Mfg. Co., Inc.,
557 W. 22d St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Scoops, Horn

Ill., Chicago
American Indicator Paper Co.

Scorifiers

Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
N. J., Jersey City
Dixon Crucible Co., Joseph

Scourers (*see Textile Machinery*)

Screening Machinery

Md., Baltimore
Bartlett Hayward Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and
36th St.

Screens, Acid Proof

Ill., Aurora
Stephens-Adamson Mfg. Co.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Sturtevant Mill Co., Harrison Sq.
Mich., Detroit
Michigan Wire Cloth Co., 536 Howard St.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Co., Inc., 255 W. 19th St.
Ohio, Akron
U. S. Stoneware Co.

Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Screens, Alkali Proof (*see Screens, Acid Proof*)

Screens, Cement

Ill., Chicago
Caldwell & Gore Co., H. W., 17th St. and Western Ave.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
N. J., Newark
Newark Wire Cloth Co., 222-28 Verona Ave.
N. Y., New York City
Multi-Metal Co., Inc., 255 W. 19th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Tyler Co., W. S., Superior Ave. and
36th St.
Ohio, Columbus
Jeffrey Mfg. Co.

Screens, Coal (*see Screens, Mining*)

Screens, Filter

Ill., Chicago
American Wire Fabrics Co.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Mich., Detroit
Detroit Wire Cloth Co.
N. J., Newark
Newark Wire Cloth Co.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.
Ohio, Cleveland
Cleveland Wire Cloth & Mfg. Co.
Tyler Co., W. S., Superior Ave. and
36th St.

Screens, Impact

Colo., Denver
Colorado Iron Works Co.

Screens, Inclined, Vibrating

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.

Screens, Mining*Colo., Denver*

Colorado Iron Works Co.

Ill., Chicago

Caldwell & Son Co., W. H.

Link-Belt Co., W. 39th St. and Stewart Ave.

Mass., Boston

Sturtevant Mill Co., Harrison Sq.

Clinton Wire Cloth Co., Sears Bldg.

Mo., St. Louis

Ludlow-Saylor Wire Co.

N. J., Newark

Newark Wire Cloth Co.

N. J., Trenton

New Jersey Wire Cloth Co.

N. Y., New York City

Multi Metal Co., Inc., 255 W. 19th St.

Worthington Pump & Machinery Corp., 115 Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. N.

Tyler Co., W. S., Superior Ave. and 36th St.

Ohio, Columbus

Jeffrey Mfg. Co.

Ohio, Tiffin

Webster Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Screens, Newaygo*Mass., Boston*

Sturtevant Mill Co., Harrison Sq.

Screens, Oil (*see Screens, Filter*)**Screens, Ore** (*see Screens, Mining*)**Screens, Perforated Metal***Ill., Chicago*Harrington & King Perforating Co.,
640 N. Union Ave*Pa., Carbondale*

Hendrick Mfg. Co., 39-75 Dundaff St.

*Wis., Milwaukee*Nortmann Duffke Fdy Co., 1210
27th Ave.**Screens, Revolving***Colo., Denver*

Colorado Iron Works Co.

Ill., Aurora

Stephens-Adamson Mfg. Co.

*Ill., Chicago*Caldwell & Sons Co., H. W., 17th and
Western Aves.Link-Belt Co., W. 39th St. and Stewart
Ave.*Mich., Detroit*

Michigan Wire Cloth Co.

N. Y., New York City

Buchanan Co., Inc., C. G., 90 West St.

Ohio, Cincinnati

Day & Co., J. H., 1144 Harrison Ave.

*Ohio, Cleveland*Tyler Co., The W. S., Superior Ave.
and 36th St.*Ohio, Tiffin*

Webster Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Chain Belt Co.

Screens, Rolled Wire*Ohio, Cleveland*Tyler Co., The W. S., Superior Ave.
and 36th St.**Screens, Rolling***Colo., Denver*

Colorado Iron Works Co.

Del., Wilmington

Walker & Elliott, Inc.

*Ill., Chicago*Link-Belt Co., W. 39th St. and Stewart
Ave*Mass., Boston*

Sturtevant Mill Co., Harrison Sq.

*Ohio, Cleveland*Tyler Co., The W. S., Superior Ave.
and 36th St.*Wis., Milwaukee*

Allis-Chalmers Mfg. Co.

Chain Belt Co.

Screens, Rotary (*see Screens, Re-
volving*)**Screens, Sand** (*see Screens, Mining*)**Screens, Shaking** (*see Screens, Roll-
ing*)**Screens, Slot***Ohio, Cleveland*Tyler Co., The W. S., Superior Ave.
and 36th St.**Screens, Vibrating***Ill., Chicago*Link-Belt Co., W. 39th St. and Stewart
Ave.*Md., Baltimore*

Bartlett Hayward Co.

N. Y., New York City

Day & Co., J. H.

Screens, Wire Cloth *see (Wire
Cloth)*

Scrubbers, Gas*Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Lummas Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

N. J., Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. Y., New York City

Foundation Co., The, Woolworth Bldg.

General Ceramics Co., 50 Church St.

Machinery Utilities Co., Inc., 501 5th Ave.

Ohio, Cleveland

Gas Machinery Co.

Pa., Philadelphia

Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Sealing Machinery*Md., Baltimore*

Crown Cork & Seal Co.

N. J., Newark

Automatic Weighing Machine Co., 134 Commerce St.

Searchlights*N. Y., Rochester*

Bausch & Lomb Optical Co.

N. Y., Schenectady

General Electric Co.

Seats, Lead*Pa., Philadelphia*

Monarch Mfg. Works, Inc., 3129 Emery St.

Sensitizing Machinery*Ill., Chicago*

Pease Co., C. F., 219 W. Institute Place

Separators, Air*Ill., Chicago*

Raymond Bros., Impact Pulverizer Co., 1327 North Branch St.

Mass., Boston

Sturtevant Co., B. F., Hyde Park

Separators, Ammonia*N. Y., New York City*

De La Vergne Machine Co., 1123 E. 138th St.

Worthington Pump & Machinery Corp., 115 Broadway

Separators, Centrifugal (*see Centrifugals*)**Separators, Dairy***Ill., Chicago*

Albaugh-Dover Co., 2106 Marshall Blvd.

Creamery Package Mfg. Co., 61 W Kinzie St.

N. Y., Little Falls

Burrell & Co., D. H.

N. Y., New York City

De Laval Separator Co., 167 Broadway

Pa., West Chester

Sharples Separator Co., The

Separators, Electrostatic*Mass., Boston*

Huff Electrostatic Separator Co., 60

India St.

Separators, Inclined, Vibrating*Ohio, Cleveland*

Tyler Co., The W. S., Superior Ave. and 36th St.

Separators, Laboratory Magnetic*Wis., Milwaukee*

Dings Magnetic Separator Co., 671 Smith St.

Separators, Magnetic*Colo., Denver*

Stearns-Rogers Mfg. Co.

N. Y., New York City

Buchanan Co., Inc., C. G., 90 West St.

K-B Pulverizer Co., Inc., 70 Worth St.

Pa., Muncy

Sprout, Waldron & Co.

Pa., Philadelphia

Dienelt & Eisenhardt Co., Inc., 1304 N. Howard St.

Wis., Milwaukee

Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.

Dings Magnetic Separator Co., 671 Smith St.

Magnetic Mfg. Co., 764 Windlake Ave.

Separators, Moisture (*see Separators, Steam*)**Separators, Oil***Conn., New Haven*

National Pipe Bending Co., The, River and Lloyd Sts.

Ill., Chicago

Crane Co., 836 S. Michigan Ave.

Ill., Quincy

Gardner Governor Co.

Mass., Boston

American Tool & Machine Co., 10 High St.

N. J., Camden

Webster & Co., Warren

N. Y., New York City

De La Vergne Machine Co., 1123 E. 138th St.

Griscorn-Russell Co., 90 West St.

Pa., Philadelphia

Harrison Safety Boiler Works, 3130 N. 17th St.

Separators, Ore (*see also Screens, Mining*)*Wis., Milwaukee*

Dings Magnetic Separator Co., 333 South St.

Separators, Screen (*see Screens, Various Headings*)**Separators, Soil***N. Y., New York City*

Bernard & Co., F. J., 70 Murray St.

Separators, Steam*Conn., New Haven*

National Pipe Bending Co., The, River and Lloyd Sts.

Iowa, Marshalltown

Fisher Governor Co., 201 S. 1st Ave.

Mass., Boston

d'Este Co., Julian, 26 Canal St.

N. J., East Carteret

Wheeler Condenser & Eng. Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*N. Y., New York City*Kellogg Co., The M. W., 90 West St.
Provost Engineering Corp., 220 Broadway*Sarco Co., Inc., Woolworth Bldg.*

Worthington Pump & Machinery Corp., 115 Broadway

Pa., Philadelphia

Harrison Safety Boiler Works

Separators, Vibrating*Ohio, Columbus*

Jeffrey Mfg. Co., 904 N. 4th St.

Settlers, Matte*Colo., Denver*

Colorado Iron Works Co.

N. Y., New York City

Dorr Co., 101 Park Ave.

Sewerage Treatment Plants*N. Y., New York City*

Dorr Co., 101 Park Ave.

Shafting*Del., Wilmington*

Walker & Elliott, Inc.

Ill., Chicago

Caldwell & Sons Co., H. W., 17th and Western Aves.

Link-Belt Co., W. 39th St. and Stewart Ave.

Ohio, Youngstown

Republic Iron & Steel Co.

Pa., Muncy

Sprout, Waldron & Co.

*Pa., Philadelphia*Cambria Steel Co., Widener Bldg.
Sellers & Co., Inc., Wm., 1600 Hamilton St.*Pa., Pittsburgh*

Jones & Laughlin

National Tube Co., Frick Bldg.

Pa., Williamsport

Valley Iron Works

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Chain Belt Co.

Shakers*Mass., Brighton*

International Equipment Co., 352 Western Ave.

Shakers, Sieve*N. Y., Brooklyn*

Howard & Morse, 1197-1211 De Kalb Ave.

Ohio, Cleveland

Tyler Co., The W. S., Superior Ave. and 36th St.

Sheet Metal*Conn., Bridgeport*

Bridgeport Brass Co.

Wis., Milwaukee

Geuder, Paeschke & Frey Co., St. Paul and 15th Sts.

Sheet Metal Products*Mass., Cambridge*

Riverside Boiler Works, Inc., 491 Main St.

Mich., Battle Creek

Michigan Metal Products Co., 20th and Morr Sts.

Ohio, Canton

Berger Mfg. Co.

Sheet Work Apparatus*N. Y., New York City*

Furman-Fisher Corporation, 30 Church St.

Sheets, Aluminum Coated Steel*N. Y., New York City*

*Rebele, L. J., 50 Church St.

Sheets, Black*Pa., Pittsburgh*

American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Brass and Bronze*Conn., Waterbury*

Randolph-Clowes, Co., The

Sheets, Brass, Copper, Bronze*Mich., Detroit*Detroit Copper & Brass Rolling Mills,
95 Clark Ave.**Sheets, Corrugated***Pa., Pittsburgh*American Sheet & Tin Plate Co., Frick
Bldg.**Sheets, Galvanized***Pa., Pittsburgh*American Sheet & Tin Plate Co., Frick
Bldg.**Sheets, Galvanized, Copper
Steel***Pa., Pittsburgh*American Sheet & Tin Plate Co., Frick
Bldg.**Sheets, Hard Rubber***N. Y., New York City*

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Sheets, Laminated*Ill., Chicago*Redmanol Chemical Products Co., 636
W. 22d St.**Sheets, Muntz Metal***Conn., Waterbury*

Randolph-Clowes Co., The

Sheets, Polished Steel*Pa., Pittsburgh*American Sheet & Tin Plate Co., Frick
Bldg.**Sheets, Pure Nickel***N. Y., New York City*

Haring, Ellsworth, 114-118 Liberty St.

Sheets, Vulcanized Fibre*Pa., Bridgeport*

Diamond State Fibre Co.

**Shells, Brass and Copper, Seam-
less***Conn., Waterbury*

Randolph-Clowes Co., The

Shelves, Metal*Ill., Aurora*

Lyon Metallic Co.

Ill., Chicago

Durand Steel Locker Co.

Mass., Boston

Clinton Wire Cloth Co., Sears Bldg.

*Mass., Framingham*Manufacturing Equipment & Engraving
Co.*N. Y., New York City*

Multi Metal Co., Inc., 255 W. 19th St.

Pa., Philadelphia

Lupton & Sons Co., David

Shelves, Wrought Steel*Conn., New Britain*

Hart & Cooley Co.

Shingles, Metal*Ohio, Canton*

Berger Mfg. Co.

Shoes, Wooden*N. Y., New York City*

Estes & Sons, E. B., 75 Warren St.

Shovels, Power*Ill., Aurora*

Stephens-Adamson Mfg. Co.

*Ill., Chicago*Link-Belt Co., 39th St. and Stewart
Ave.**Shredders***Ill., Chicago*Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer
Co., Old Colony Bldg.*N. Y., New York City*

Abbé, Paul O., 30 Broad St

Ohio, Columbus

Jeffrey Mfg. Co., 904 N. 4th St.

Shutters, Automatic*Ill., Chicago*

Hlg Electric Ventilating Co

**Sieves, Experimental (see also
Screens)***N. J., Newark*

Newark Wire Cloth Co.

*N. Y., Brooklyn*Howard & Morse, 1197-1211 De Kalb
Ave.*N. Y., New York City*

Multi Metal Co., Inc., 255 W. 19th St.

Ohio, Cincinnati

Day & Co., J. N., 1144 Harrison Ave.

Sieves, Laboratory Testing*N. Y., New York City*

Multi Metal Co., Inc., 251 W. 19th St.

Sifters*Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher
Bldg.

Mich., Saginaw

Werner & Pfeleiderer Co., Inc.

Mo., St. Louis

Ludlow-Saylor Wire Co.

N. Y., New York City

Abbe, Paul O., 30 Broad St.
Worthington Pump & Machinery
Corp., 115 Broadway

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Ohio, Cleveland

Bartlett & Snow Co., C. O.
Tyler Co., W. S., Superior Ave. and
36th St.

Ohio, East Liverpool

Patterson Foundry & Machine Co.

Ohio, Lockland

Gedge-Gray Co.

Pa., Muncy

Sprout, Waldron & Co.

Sifting Machinery*Mich., Saginaw*

Werner & Pfeleiderer Co., 1260 N. Ni-
agara St.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Mass., Boston

Holmes & Blanchard Co., 31 State St.

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Sil-O-Cel Products*N. Y., New York City*

Celite Products Co., 11 Broadway

Silos*Md., Baltimore*

Baltimore Cooper Co., The

Ohio, Cincinnati

Hauser-Stander Tank Co.

Pa., Philadelphia

Paxson Co., J. W., 1021 N. Delaware
Ave.

Silica, Fused*Ill., Chicago*

Schaar & Co., 1025 S. State St.

N. Y., New York City

Sidio Co. of America, Inc., 37 Murray
St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Pa., Pittsburgh

Harbison-Walker Refractories Co.

Silica Sand*Ill., Chicago*

United States Silica Co., 419 People's
Gas Bldg.

Silica Ware*N. J., Newark*

Hanovia Chemical & Mfg. Co.

N. Y., New York City

Palo Co., 90-94 Maiden Lane
Sidio Co. of America, Inc., 37 Murray
St.

Thermal Syndicate, Ltd., 50 E. 41st St.

Sinks, Acid Proof*N. Y., New York City*

Alberene Stone Co., 223 E. 23d St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works,
Charles, 986 Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Sinks, Steel*Mass., Cambridge*

Riverside Boiler Works, Inc., 491 Main
St

N. Y., New York City

Duriron Castings Co., 90 West St.

Sinks, Stoneware*N. Y., New York City*

Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, 986
Metropolitan Ave.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Sinks, Wood*Ill., Chicago*

Eagle Tank Co., 1315 W. 21st Pl.

Sintering Machines*N. Y., New York City*

Dwight & Lloyd Sintering Co., 29
Broadway

Ohio, Cleveland

Bartlett & Snow Co., C. O.

Sizers (see Screens and Classifiers)*Colo., Denver*

Colorado Iron Works Co.

Smelters*Cal., San Francisco*

Selby Smelting & Lead Co.

*Ill., Chicago*Chicago Retort & Fire Brick Co., 208
S. La Salle St.Goldsmith Bros. Smelting & Refining
Co.*Ill., Danville*

Hegeler Zinc Co.

Ill., La Salle

Matthiessen & Hegeler Zinc Co.

Ill., Peru

Illinois Zinc Co.

*Mass., Boston*U. S. Smelting, Refining & Mining Co.,
55 Congress St.*Mich., Detroit*Detroit Metal Refining Co., 452-470
Lawton St.*Mo., St. Louis*

Edgar Zinc Co., 314 N. Broadway

*N. J., Newark*Balbach Smelting & Refining Co., 580
Market St.*N. Y., New York City*American Smelting & Refining Co.
Eagle Smelting & Refining Works,
Woolworth Bldg.Nassau Smelting & Refining Works,
607 W. 29th St.*Ohio, Cleveland*Grasselli Chemical Co.
National Smelting Works, 6800 Grant
Ave.*Pa., Pittsburgh*Pennsylvania Smelting Co., Benedum-
Trees Bldg.
Pittsburgh Smelting & Refining Co.,
Elizabeth and B. & O. R. R.*Wash., Tacoma*

Tacoma Smelting Co.

Smelting Machinery*Cal., Los Angeles*Llewellyn Iron Works, North Main
and Redondo Sts.*Cal., Oakland*

Senn Concentrator Co.

*Cal., San Francisco*Pacific Foundry Co., 18th and Har-
rison Sts.Union Iron Works Co., 260 California
Ave.*Colo., Denver*American Zinc Ore Separating Co.,
1218 Foster Bldg.

Colorado Iron Works Co.

Dorr Co., Cooper Bldg.

Mine & Smelter Supply Co.

Morse Bros. Machinery & Supply Co.

*Ill., Chicago*Link-Belt Co., W. 39th and Stewart Sts.
Sullivan Machinery Co.*N. Y., Brooklyn*Improved Appliance Co., 413-415
Kent Ave.*N. Y., New York City*Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Co., 42 Broadway
Worthington Pump & Machinery
Corp., 115 Broadway*Ohio, Alliance*

Reeves Bros. Co., 338 Rush St.

*Ohio, Cleveland*Wellman-Seaver-Morgan Co., 7004
Central Ave.*Ohio, Columbus*

Jeffrey Mfg. Co., 954 N. 4th St.

Pa., Allentown

Traylor Engineering & Mfg. Co.

Pa., Wilkes-Barre

Vulcan Iron Works

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Smoke Breechings*N. Y., New York City*

Dover Boiler Works, 55 Church St.

Smoke Consuming Apparatus*N. Y., Mechanicsville*Mechanicsville Specialty Supply Mfg.
Co.**Smoke Stacks** (*see Stacks*)**Sockets***Ohio, Cleveland*

Cleveland Twist Drill Co.

Soapstone*N. C., Asheville*

Georgia Talc Co.

*N. Y., New York City*Alberene Stone Co., 223 E. 23d St.
Tale Products Co., 11 Pine St.*Tenn., Chattanooga*

American Lava Co.

Soda Driers*N. Y., Olean*

Luther Mfg. Co., 133 Railroad Ave.

Soda Reclaiming Systems*N. Y., Buffalo*

Zaremba Co., Morgan Bldg.

N. Y., New York City

Dorr Co., 101 Park Ave.

Solders*Mo., St. Louis*

Hoyt Metal Co., 300 N. Broadway

N. Y., New York City

Du Bois & Co., F. N., 245 9th Ave.

Solders, Gold, Silver, Platinum*Conn., Hartford*

Ney Co., J. M.

Pa., Philadelphia

Hagstoz & Son, T. B., 709 Sansom St.

Solenoids*Ill., Chicago*

Chicago Surgical & Electrical Co., 314 W. Superior St.

Solvent Recovery Plants*Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Bartlett-Hayward Co.

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mich., Saginaw

Werner & Pfeleiderer Co., Inc.

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P., 1366 Clinton St.

Sowers Mfg. Co., 1300 Niagara St.

N. Y., New York City

Dorr Co., The, 17 Battery Pl.

General Ceramics Co., 50 Church St.

Roos' Son, August, 429 E. 91st St.

N. Y., Rochester

Pfaudler Co., The

Pa., Coatesville

Coatesville Boiler Works

Pa., Philadelphia

Blair Campbell & McLean, Inc., Colonial Trust Bldg.

Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Stokes Machine Co., F. J., 17th and Cambria Sts.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Spatulas*Colo., Golden*

Herold China & Pottery Co.

Conn., New Britain

Landers, Frary & Clark

N. J., Newark

American Platinum Works, 225 N. J. R. R. Ave.

Baker & Co., Inc., 54 Austin St.

N. Y., New York City

*Bernard & Co., F. J., 70 Murray St.

*Eimer & Amend, 205-211 3d Ave.

Ohio, Cambridge

Guernsey Earthenware Co.

Ohio, Columbus

Laboratory Supply Co.

Ohio, Zanesville

Ohio Pottery Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Spatulas, Horn*Ill., Chicago*

American Indicator Paper Co.

Spatulas, Wooden*N. Y., New York City*

Estes & Sons, E. B., 362 5th Ave.

Specific Gravity Apparatus*N. Y., New York City*

Squibb & Sons., E. R., 80 Beekman St

Spectroscopes*Ill., Chicago*

Gaertner & Co., Wm., 5345 Lake Park Ave.

*Central Scientific Co., 460 E. Ohio St.

Mo., St. Louis

*Heil Chemical Co., Henry, 210-214 S. 4th St.

N. Y., New York City

Eimer & Amend, 205-211 3d Ave.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Speedometers*Conn., Hartford*

Veeder Mfg. Co.

Ill., Chicago

Stewart-Warner Speedometer Co.

Mass., Boston

Standard Thermometer Co., 65 Shirley St.

Sphygmomanometers*Ill., Chicago*

*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Spigots*Mass., Boston*

Eastern Clay Goods Co., 141 Milk St.

Spigots, Acid Proof*N. Y., New York City*

Estes & Sons, E. B., 362 5th Ave.

Splints, Wooden

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Sponges

Ill., Chicago
Rhodes & Co., James H., 157 W. Austin Ave.
N. Y., New York City
American Sponge & Chamois Co., Inc., 73 Wooster St.
Eimer & Amend, 205-211 3d Ave.
*Lasker & Bernstein, Inc., 161 William St.

Sponges, Rubber

N. Y., New York City
Borgfeldt & Co., Geo., 16th and Irving Pl.
Ohio, Akron
Miller Rubber Co.
Ohio, Ashland
Faultless Rubber Co.

Spoons, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Spoons, Horn

Ill., Chicago
American Indicator Paper Co.

Spoons, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., J., Platinum Works

Spouts

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Spray Cooling Systems (see also *Cooling Systems*)

Ill., Chicago
Star Brass Works, 3114-3120 Carroll Ave.
Mass., Boston
Spray Engineering Co., 93 Federal St.
N. Y., New York City
Carrier Air Conditioning Co. of America, 490 Broadway

Spray Nozzle Installation

N. Y., New York City
Cooling Tower Co., Inc., The, 17 John St.

Spray, Nozzles

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprayers, Oil Paint

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Spraying Systems, Paint

Mass., Boston
Spray Engineering Co., 93 Federal St.

Sprays, Atomizing

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Brass, Steel, Iron, Monel Metal

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Chemical and Industrial Purposes

N. Y., Long Island City
Anthony Co., 138 West Ave.
Pa., Philadelphia
Monarch Mfg. Works, Inc., 3129 Emery St.

Sprays, Hard Rubber

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Oil

N. Y., Long Island City
Anthony Co., 138 West Ave.

Sprays, Re-cooling,

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Stoneware,

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprinkler Systems, Fire, Automatic

N. Y., New York City
Automatic Sprinkler Co. of America, 123 William St.
Pa., Philadelphia
Globe Automatic Sprinkler Co., 2035 Washington Ave.
R. I., Providence
General Fire Extinguisher Co., 275 W. Exchange St.

Sprinklers, Park

Mass., Boston
Spray Engineering Co., 93 Federal St.

Sprinklers, Plant

Mass., Andover
Tyer Rubber Co.

Stacks*Ill., Chicago*

Chicago Bridge & Iron Works, Old Colony Bldg.

Ky., Louisville

Caldwell Co., W. E.

Md., Baltimore

Bartlett-Hayward Co.

Codd Co., E. J., 710 S. Caroline St.

Mich., Muskegon

Muskegon Boiler Works

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. J., Burlington

United States Cast Iron, Pipe & Foundry Co.

N. Y., Buffalo

Buffalo Engineering Co., Erie County Bank Bldg.

N. Y., New York City

American Car & Foundry Co., 165 Broadway

Dover Boiler Works, 55 Church St.

Standard Tank Co., 15 Park Row

Ohio, Cincinnati

Houston-Stanwood & Gamble Co.

Ohio, Leetonia

Leetonia Boiler Co., Kunkel Bldg.

Pa., Coatesville

Coatesville Boiler Works

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Keller Co., E.

Wis., Milwaukee

Milwaukee Boiler Works

Stains, Microscopical*Ill., Chicago*

*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Stamp Mills (see Mining Machinery)**Standpipes***Cal., Los Angeles*

Llewellyn Iron Works

Ill., Batavia

U. S. Wind Engine & Pump Co., 30 Water St.

Ill., Chicago

Chicago Bridge & Iron Works, Old Colony Bldg.

Fairbanks-Morse & Co.

Mich., Saginaw

Wickes Boiler Works

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Pa., Coatesville

Coatesville Boiler Works

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Stands, Floor*N. Y., Elmira*

Kennedy Valve Mfg. Co.

Stands, Laboratory (see Laboratory Apparatus and Equipment)**Stands, Retort***Ill., Chicago*

Stoelting Co., C. H., 3037 Carroll Ave.

Starch Machinery*Mich., Saginaw*

Werner & Pfleiderer Co., Inc.

Pa., Philadelphia

Remmers & Sons, B., 1227 Germantown Ave.

Starters, Automatic Motor*Ohio, Cleveland*

Electric Controller & Mfg. Co., 2698 E. 79th St.

Starters, Electric Motor*Wis., Milwaukee*

Industrial Controller Co., 900 Greenbush St.

Starters, Motor*Wis., Milwaukee*

Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.

Steel Plates*Cal., Los Angeles*

Llewellyn Iron Works

Ill., Chicago

Chicago Bridge & Iron Works Old Colony Bldg.

Illinois Steel Co.

Ind., East Chicago

Graver Tank Works, Wm.

Iowa, Des Moines

Des Moines Bridge & Iron Works

Mo., St. Louis

Stubb Bros. Bridge & Iron Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Duriron Castings Co., 90 West St.

Standard Tank Co., 15 Park Row

Stevens Bros., Singer Bldg

Ohio, Akron

Biggs Boiler Works Co.

Ohio, Leetonia

Leetonia Boiler Works

Ohio, Steubenville

La Belle Iron Works

Pa., Chester

Wetherill & Co., Robert

Steel Plates—cont.

- Pa., Coatesville*
Coatesville Boiler Works
Lukens Iron & Steel Co.
- Pa., Philadelphia*
Cambria Steel Co.
- Pa., Pittsburgh*
Carnegie Steel Co.
Jones & Loughlin Co.
- Pa., Sharon*
Petroleum Iron Works Co.

Steel Testing Apparatus

- Ill., Chicago*
*Central Scientific Co., 460 E. Ohio St.
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.

Sterilization Serum Plants

- Pa., West Chester*
Sharples Specialty Co., The

Sterilizers

- Ill., Chicago*
*Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
Mohr & Sons, John, 349-359 W. Illinois St.
Physicians' Laboratory Supply Co., 1234 Marshall Field Annex Bldg.
- N. J., Jersey City*
Koven & Brother, L. O., 154 Ogden Ave.
- Pa., Scottsdale*
Electric Water Sterilizer Co.
- N. Y., Brooklyn*
Silver & Co., 304 Hewes St.
- N. Y., Buffalo*
Hygeia Nursing Bottle Co.
- N. Y., New York City*
Dougherty, J. T., 409 W. 59th St.
Eimer & Amend, 205-211 3d Ave.
*Hospital Supply Co., 53 5th Ave.
Maris & Co., J. M., 40 Barclay St.
- N. Y., Rochester*
Wilmot Castle Co.
- Ohio, Alliance*
Reeves Bros. Co.
- Pa., Philadelphia*
*Thomas Co., Arthur H., W. Washington Sq.
- Pa., Pittsburgh*
*Scientific Materials Co., 719 Forbes St.
- *Sterilizers, Laboratory, Hot Air**
- N. Y., Rochester*
Wilmot Castle Co., 800 St. Paul St.
- Pa., Philadelphia*
Boekel & Co., Wm., 518 Vine St.
- Sterilizers, Test Tube**
- N. Y., Rochester*
Wilmot Castle Co., 800 St. Paul St.
- Stills, Chemical**
- Ga., Atlanta*
Pratt Engineering & Machine Co.
- Ill., Batavia*
Sperry & Co., D. R.
- Ill., Chicago*
Unger, John S., 3344 Broadway
- Md., Baltimore*
Bartlett-Hayward Co.
- Mass., Boston*
Badger & Sons Co., E. B., 75 Pitts Ave.
Little Co., Arthur D., 93 Broad St.
Lummas Co., Walter E., 173 Milk St.
- Mass., Fall River*
Scott & Co., Ernest
- Mich., Detroit*
Detroit Heating & Lighting Co.
- Mich., Muskegon*
Muskegon Boiler Works, Eighth St.
- N. C., Charlotte*
Chemical Construction Co.
- N. J., Burlington*
United States Cast Iron, Pipe & Foundry Co.
- N. J., Elizabeth*
Moore & Sons Corp., Samuel L.
- N. Y., Brooklyn*
Ross & Sons Co., Charles
- N. Y., Buffalo*
Buffalo Engineering Co.
Devine Co., J. P., 1366 Clinton St
Sowers Mfg. Co.
Zaremba Co.
- N. Y., New York City*
Abbe, Paul O., New St. and Exchange Pl.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Jacoby, Henry E., 95 Liberty St.
Kalbpery Corp., 31 Union Sq., W.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August, 429 E. 91st St.
Stevens Brothers, 149 Broadway
Thermal Syndicate, Ltd., The, 50 E. 41st St.
United Lined Tube & Valve Co., 120 Broadway
- N. Y., Rochester*
Pfaudler Co., The
- Ohio, Akron*
U. S. Stoneware Co.
Weeks, A. J.
- Ohio, Cleveland*
Steel Improvement & Forge Co., 5000 Winsor Ave.
- Ohio, East Akron*
Knight, Maurice A.
- Ohio, Elyria*
Elyria Enameled Products Co.

Stills, Chemical—cont.*Ohio, Hamilton*

Hamilton Copper & Brass Works

Pa., Coatesville

Coatesville Boiler Works

Pa., Fullerton

Fuller-Lehigh Co.

Pa., Philadelphia

Blair Campbell & McLean, Inc., Colonial Trust Bldg.

Pa., Pittsburgh

Marshall Foundry Co., 28th and Railroad Sts.

Rosedale Foundry & Machine Co., Columbus and Preble Aves.

Scientific Materials Co., 717 Forbes St.

Pa., Williamsport

Keeler Co., E.

Valley Iron Works

Wis., Milwaukee

Sommers & Sons Co., Galena and 31st Sts.

Stills, Mercury*Mass., Boston*

Knott Apparatus Co., L. E., Cambridge "A" Station

England, Stanningley, nr. Leeds

Leeds & Bradford Boiler Co., Ltd., The

Stills, Oil*Ill., Chicago*

Unger, John S., 3344 Broadway

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Bartlett Hayward Co.

Mass., Fall River

Scott & Co., Ernest

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Ohio, Cleveland

Gas Machinery Co., 1900 Euclid Ave.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Ohio, Niles

Standard Boiler & Plate Iron Co.

Pa., Coatesville

Coatesville Boiler Works

Pa., Sharon

Petroleum Iron Works Co.

Stills, Phenol*England, Stanningley, nr. Leeds*

Leeds & Bradford Boiler Co., Ltd., The

Ind., Fort Wayne

Western Gas Construction Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Devine Co., J. P.

Stills, Platinum*N. J., Newark*

American Platinum Works

Baker & Co., Inc.

Pa., Malvern

Bishop & Co., J., Platinum Works

Stills, Steam Jacketed*England, Deepfields, nr. Bilston, Staffs*

Cannon Iron Foundries, Ltd.

Mich., Detroit

Colton Co., Arthur

Pa., Conshohocken

Wood Mfg. Co., John

Stills, Tar (see Stills, Oil)**Stills, Turpentine***N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Ohio, Alliance

Reeves Bros. Co.

Stills, Vacuum*England, Deepfields, nr. Bilston, Staffs*

Cannon Iron Foundries, Ltd.

Mass., Boston

Lummus Co., The Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

N. J., Burlington

Stuart & Peterson Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Devine Co., J. P.

Sowers Mfg. Co., 1300 Niagara St.

N. Y., New York City

Duniron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Mott Iron Works, J. L., 118 Fifth Ave.

Turl Iron & Car Co., Inc., 50 Broad St.

United Lined Tube & Valve Co., 120 Broadway

Ohio, Akron

U. S. Stoneware Co.

Ohio, Elyria

Elyria Enameled Products Co.

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Pa., Williamsport

Valley Iron Works

Stills, Welded*N. Y., New York City*

Kellogg Co., The M. W., 90 West St.

Pa., Carbondale

American Welding Co.

Stills, Water**Ill., Chicago**

Acme Water Still Co.

Daigger & Co., A., 52-56 W. Kinzie St.
Laboratory Materials Co., 640 E. 71st St.

Sargent Steam Meter Co., 2835 Armitage Ave.

Mass., Fall River

Scott & Co., Ernest, P. O. Box 259

Mich., Detroit

Colton Co., Arthur

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., BrooklynBurkhard, Inc., Thomas
Improved Appliance Co., 413-419 Kent Ave.**N. Y., Buffalo**

Devine Co., J. P.

N. Y., New York CityDuriron Castings Co., 90 West St.
United Lined Tube & Valve Co., 120 Broadway
Van Emden Co., H., 145 W. 45th St.**N. Y., Woodbury**

Hodges Water Still Co., Inc., 33 S. Broad St.

Stills, Water, Automatic**Pa., Philadelphia**

Stokes Machine Co., F. J., 17th and Cambria Sts.

Stills, Wooden**Ohio, Cincinnati**

Hauser-Stander Tank Co.

Stirrers**Mass., Boston**

Badger & Sons Co., E. B., 63-75 Pitts St.

Mass., Fall River

Scott & Co., Ernest

N. J., Jersey City

Dixon Crucible Co., Joseph

N. J., Newark

Acid Proof Iron Products Co.

N. Y., Brooklyn

Johnson Co., John, 37th St. and 2d Ave.

N. Y., Buffalo

Sowers Mfg. Co., 1300 Niagara St.

N. Y., New York CityDuriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Gerdes & Co., Inc., 36 Church St.
Koven & Bro., L. O., 50 Church St.
Roos Son, August, 429 E. 91st St.

* United Lined Tube & Valve Co., 120 Broadway

N. Y., Niagara Falls

Acheson Graphite Co.

N. Y., Rochester

Pfaudler Co., The

Ohio, East Akron

Knight, Maurice A.

Pa., Williamsport

Valley Iron Works

Stirrers, Graphite**N. J., Jersey City**

Dixon Crucible Co., Joseph

N. Y., Niagara Falls

Acheson Graphite Co.

Stokers**N. Y., New York City**

Combustion Engineering Corp., 11 Broadway

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Pa., Fullerton

Fuller-Lehigh Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Stokers, Bituminous Coal**N. Y., New York City**

Combustion Engineering Corp.

Pa., Fullerton

Fuller-Lehigh Co.

Stokers, Powdered Coal**Ill., Chicago**

Stroud & Co., E. H., 928 Fullerton Ave.

Stones, Sharpening**Ill., Chicago**

Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.

Mass., Waltham

Superior Corundum Wheel Co.

N. Y., Niagara Falls

Carborundum Co.

Stoneware, Acid Proof**Cal., San Francisco**

Steiger Terra Cotta & Pottery Works, Mills Bldg.

Ga., Atlanta

Hood Brick Co., B. Mifflin

Ill., Mounmouth

Western Stoneware Co.

Mass., BostonEastern Clay Goods Co., 141 Milk St.
Henderson Co., 9 Preston Drive**N. Y., Brooklyn**

Graham Chemical Pottery Works, Chas., 986 Met. Ave.

N. Y., New York City

Alberene Stone Co., 223 E. 23d St.

*Behrend, F., 54 Front St.

*Eimer & Amend, 205-211 3d Ave.

General Ceramics Co., 50 Church St.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Machinery Utilities Co., Inc., 501 5th Ave

Stoneware, Acid Proof—cont.*Ohio, Akron*

Robinson Clay Product Co.
United States Stoneware Co.
Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Pa., Philadelphia

Remmey Sons Co., Richard C, Hedley
and Delaware River Bldg.

*Thomas Co., Arthur H., W. Washing-
ton Sq.

Pa., Pittsburgh

*Scientific Materials Co., 711-19 Forbes
St.

Stopcocks*N. J., Millville*

Wheaton Co., T. C.

N. J., Trenton

Luzerne Rubber Co.

N. J., Vineland

Doerr Glass Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

Goodrich Co., B. F.

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Pa., Carbondale

Griebel Instrument Co.

Stopper-Heads, Graphite*Pa., Philadelphia*

Seidel, Inc., R. B., 1322 Callowhill St.

Stoppers, Carboy, Stoneware*N. Y., New York City*

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Stoppers, Glass (see Glass, Chem-ists)**Stoppers, Laboratory, Pure Gum***Ohio, Akron*

Goodrich Co., B. F.

Stoppers, Laboratory, Semi-Pure Gum*Ohio, Akron*

Goodrich Co., B. F.

Stoppers, Rubber*Ill., Chicago*

*Daigger & Co., A., 52-56 W. Kinzie
St.

Mass., Boston

*Knott Apparatus Co., L. E., Cam-
bridge "A" Station

Ohio, Akron

Goodrich Co., B. F.

Pa., Philadelphia

Quaker City Rubber Co., 629 Market
St.

*Thomas Co., Arthur H., W. Washing-
ton Sq.

Whitall-Tatum Co., 410 Race St.

Stopples, Laboratory*Ohio, Ashland*

Faultless Rubber Co.

Stops, Electric Limit*Ohio, Cleveland*

Electric Controller & Mfg. Co., 2698
E. 79th St.

Stoves, Alcohol*N. J., Newark*

Alpha Alcohol Utensil Co., 367 N. 5th
St.

Stoves, Hot Blast*Colo., Denver*

Colorado Iron Works Co.

Stoves, Sterilizer*N. Y., New York City*

Tirrill Gas Machine Lighting Co., 103
Park Ave.

Stoves, Testing*N. Y., New York City*

Tirrill Gas Machine Lighting Co., 103
Park Ave.

Strainers, Acid (see also Screens)*Mass., Boston*

Clinton Wire Cloth Co., Sears Bldg.

N. J., East Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. J., Elizabeth

Moore & Sons Corp., Samuel L.

N. J., Harrison

Shriver & Co., T.

N. Y., New York City

General Ceramics Co., 50 Church St.

Multi Metal Co., Inc., 255 W. 19th St.

N. Y., Rockville Center, Long Island

Nassau Valve & Pump Co., Inc.

Ohio, Akron

U. S. Stoneware Co.

Ohio, Cleveland

Tyler Co., W. S.

Strainers, Air*N. Y., New York City*

Sarco Co., Inc., 229 Broadway

Ohio, Cincinnati

Macleod Co., 2232-36 Bogen Ave.

Strainers, Bronze, Chemetal

N. Y., L. I., Rockville Center
Nassau Valve & Pump Co., Inc.

Strainers, Gasoline

N. J., Newark
Newark Wire Cloth Co., 228 Verona Ave.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Strainers, Lead

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Strainers, Oil

N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St

Strainers, Steam

Ill., Decatur
Mueller Mfg. Co., H.
N. Y., New York City
Sarco Co., Inc., 229 Broadway

Strainers, Twin

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

Strainers, Water

Conn., Waterbury
Waterbury Mfg. Co.
Ill., Chicago
Crane Co., 836 S. Michigan Ave.
N. Y., New York City
Sarco Co., Inc., 229 Broadway
Pa., Pittsburgh
Elliott Co., 6915 Susquehanna St.
Pittsburgh Valve, Foundry & Construction Co.
Rosedale Foundry & Machine Co., Columbus and Preble Aves.

Strainers, Water (Conveying)

Ill., Chicago
Link-Belt Co.
Wis., Milwaukee
Chain Belt Co., 734 Park St.

Structural Steel Work (*see Steel Plates*)**Suction Apparatus**

N. Y., Rochester
Will Corporation

Sugar Machinery

Colo., Denver
Stearns-Roger Mfg. Co.
Del., Wilmington
Pusey & Jones
Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
La., New Orleans
Joubert & Goslin Machine & Foundry Co.
Murphy Iron Works, John H.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Bay City
Mackinnon Boiler & Machinery Co.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
Squier Mfg. Co., Geo. L.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Treadwell Co., M. H., 140 Cedar St.
U. S. and Cuban Allied Works Eng. Corporation, 50 Broad St.
Ohio, Cleveland
Kilby Mfg. Co., 4623 Lakeside Ave.
Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.
Oat & Sons, Joseph, 232 Quarry St.
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.
Pa., Wilkes-Barre
Vulcan Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Suits, Acid Resisting

Ohio, Akron
Goodrich Rubber Co., B. F., S. Main St.

Sulphate Pulp Plants (*see Paper Machinery*)**Sulphite Pulp Plants** (*see Paper Machinery*)**Sulphite-Waste Recovery Plants**

N. Y., Buffalo
Zaremba Co., Morgan Bldg.

Sulphonators

- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts St.
- *Mass., Fall River*
Lummus Co., Walter E., 173 Milk St.
- Mass., Fall River*
Scott & Co., Ernest
- N. J., Elizabeth*
Moore & Sons, Corp., Samuel L.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St
Sowers Mfg. Co., 1300 Niagara St.
- N. Y., New York City*
Duriron Castings Co., 90 West St
Machinery Utilities Co., Inc., 501 5th Ave.
Stevens Brothers, 149 Broadway
- Pa., South Bethlehem*
Bethlehem Foundry & Machine Co.
- Pa., Williamsport*
Valley Iron Works

Sulphur Black Plants

- Mass., Boston*
Badger & Sons Co., R. E., 63-75 Pitts St.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co
Devine Co., J. P.

Sulphur Blue Plants

- Mass., Boston*
Badger & Sons Co., R. E., 63-75 Pitts St.
- N. Y., Buffalo*
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Sulphur Referee's Apparatus

- N. Y., Rochester*
Will Corporation

Superheaters

- Wis., Milwaukee*
Dravo Co., 1195 30th St.

Superheaters, Portable

- Ohio, Cleveland*
Eureka Machine Co., 2610 Vega Ave.

Surveying Instruments

- Ill., Chicago*
Pease Co., C. F., 219 W. Institute Pl
- N. Y., Rochester*
Bausch & Lomb Optical Co
- N. Y., Troy*
Gurley, W. & L. E.

Switchboard Equipment

- Mass., South Boston*
Condit Electrical Mfg. Co.
- N. J., Newark*
Weston Electrical Instrument Co.
- N. Y., Schenectady*
General Electric Co.
- Pa., East Pittsburgh*
Westinghouse Electric & Mfg. Co.
- Wis., Milwaukee*
Allis-Chalmers Mfg. Co.

Switches, Electric

- Mich., Detroit*
Detroit Fuse & Mfg. Co., 1400-1414 Rivard St.
- N. Y., Albany*
Consolidated Car Heating Co.
- N. Y., New York City*
Easton Car & Construction Co., 30 Church St.
- N. Y., Schenectady*
General Electric Co.
- Pa., East Pittsburgh*
Westinghouse Electric & Mfg. Co.

Switches, Electric Motor

- Mass., South Boston*
Condit Electrical Mfg. Co.
- N. Y., New York City*
Easton Car & Construction Co., 30 Church St
- N. Y., Schenectady*
General Electric Co.
- Pa., East Pittsburgh*
Westinghouse Electric & Mfg. Co.

Switches, Motor Protective

- Mass., South Boston*
Condit Electrical Mfg. Co.

Switches, Oil

- Mass., South Boston*
Condit Electrical Mfg. Co.

Switches (Pyrometer)

- N. Y., Rochester*
Taylor Instrument Cos.

Synchrosopes

- N. J., Newark*
Weston Electrical Instrument Co.
- Pa., East Pittsburgh*
Westinghouse Electric & Mfg. Co.

Tanks, Air—cont.*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

*N. Y., New York City*American Car & Foundry Co., 165
Broadway

Dover Boiler Works, 50 Church St.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.*Pa., Coatesville*

Coatesville Boiler Works

Pa., Hamburg, Berks Co.

Hamburg Boiler Works

Tanks, Aluminum*N. Y., Buffalo*

Devine Co., J. P.

Pa., Pittsburgh

Aluminum Co. of America

Tanks, Ammonia*Ind., Fort Wayne*

Western Gas Construction Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Anhydrous-Ammonia***Ind., Fort Wayne*

Western Gas Construction Co.

*N. Y., New York City*Welding Supply Co., Inc., 132 Nassau
St.**Tanks, Blow***Ind., East Chicago*

Graver Tank Works, Wm.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.*Pa., Hamburg, Berks Co.*

Hamburg Boiler Works

Tanks, Brine*Mass., Cambridge*Riverside Boiler Works, Inc., 491 Main
St.*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Car***N. Y., New York City*

Dover Boiler Works, 50 Church St.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.*Ohio, Niles*

Standard Boiler & Plate Iron Co.

Tanks, Carbonating*N. J., Burlington*

United States Cast Iron, Pipe & Foundry Co.

Tanks, Carbonic Acid Gas*N. Y., New York City*Welding Supply Co., Inc., 132 Nassau
St.**Tanks, Cast Iron***Ala., Birmingham*

American Cast Iron Pipe Co.

England, Stanningley, nr. Leeds

Leeds & Bradford Boiler Co., Ltd., The

Ill., Batavia

Sperry & Co., D. R.

Ind., Fort Wayne

Western Gas Construction Co.

Ky., Louisville

Caldwell Co., W. E.

Md., Baltimore

Baltimore Cooperage Co.

Bartlett Hayward Co.

N. J., East Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

*N. Y., New York City*Akerlund & Semmes, Inc., 17 Battery
Pl.

Duriron Castings Co., 90 West St.

Jacoby, Henry E., 95 Liberty St.

Machinery Utilities Co., Inc., 501 5th
Ave.*Ohio, Akron*

Biggs Boiler Works Co.

Pa., Conshohocken

Wood Mfg. Co., John

Pa., Fullerton

Fuller-Lehigh Co.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Pa., Williamsport

Keeler Co., E

Tanks, Chlorine*N. Y., New York City*Welding Supply Co., Inc., 132 Nassau
St.**Tanks, Compressed Air***Ind., Fort Wayne*

Western Gas Construction Co.

*Mass., Cambridge*Riverside Boiler Works, Inc., 491 Main
St.*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.

Tanks, Concrete, Oil Storage*Mich., Detroit*

Steere Engineering Co., Woodward Ave.

Tanks, Copper*Ky., Louisville*

Caldwell Co., W. E.

Mass., Boston

Badger & Sons Co., R. E., 63-75 Pitts St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Acme Tank Co., 39 Cortlandt St.

Griscom-Russell Co., 90 West St.

Machinery Utilities Co., Inc., 501 5th Ave.

Roos' Sons, August, 429 E. 91st St.

Ohio, Akron

Biggs Boiler Works Co.

Pa., Philadelphia

Oat & Sons, Joseph, 230 Quarry St.

Ott Co., George F., 213 Buttonwood St.

Tanks, Copper Lined (*see Tanks, Copper*)**Tanks, Creosoting***N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Tanks, Crystallizing*N. Y., Buffalo*

Devine Co., J. P.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Tanks, Cyanide (*see also Tanks, Acid Proof*)*Md., Baltimore*Baltimore Cooperage Co., The
Bartlett Hayward Co.**Tanks, Decantation***Colo., Denver*

Colorado Iron Works Co.

Tanks, Dipping*England, Deepfields, nr. Bilshire, Staffs*

Cannon Iron Foundries, Ltd.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Dissolving (*see also Tanks, Acid*)*N. Y., Brooklyn*

Johnson Co., John, 37th St. and 2d Ave.

N. Y., New York City

International Process Co., 5 Beekman St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Dissolving, Automatic*Mass., Boston*

Lummus Co., The Walter E.

Tanks, Drip*Ohio, Akron*

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Hamburg, Berks Co.

Hamburg Boiler Works

Tanks, Drowning*N. Y., Olean*

Luther Mfg. Co., 133 Railroad Ave.

Tanks, Dyes*Ind., East Chicago*

Graver Tank Works, Wm.

Ky., Louisville

Caldwell Co., W. E.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Tanks, Elevator*Ohio, Akron*

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Hamburg, Berks Co.

Hamburg Boiler Works

Tanks, Expansion*N. Y., Buffalo*

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Filter*N. J., Garwood*

Beekley Perforating Co., North Ave.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Md., Baltimore

Baltimore Cooperage Co., The

Tanks, Fuel Oil*Ohio, Leetonia*

Leetonia Boiler Co., Kunkel Bldg.

Tanks, Galvanized*Mass., Cambridge*

Riverside Boiler Works, Inc., 491 Main St.

Mich., Detroit

Detroit Range Boiler Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Ohio, Akron

U. S. Stoneware Co.

Weeks, A. J.

Ohio, East Akron

Knight, Maurice A.

Pa., Hamburg, Berks Co.

Hamburg Boiler Works

Tanks, Gas*Ind., Fort Wayne*

Western Gas Construction Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Welding Supply Co., Inc., 132 Nassau St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Tanks, Gasoline Storage*Ind., Fort Wayne*

Western Gas Construction Co.

Mass., Cambridge

Riverside Boiler Works, Inc., 491 Main St.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Dayton

Buckeye Boiler Co., 1617 McLain St.

Pa., Coatesville

Coatesville Boiler Works

Pa., Pittsburgh

Scaife & Sons Co., Wm. B., 221 1st Ave.

Tanks, Glass Enameled (Lead or Steel Lined)*N. Y., Rochester*

Pfaudler Co., The

Ohio, Elyria

Elyria Enameled Products Co.

Tanks, Gravity, Automatic Sprinkler*Md., Baltimore*

Baltimore Cooperage Co., The

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Half Round*Cal., San Francisco*

Pacific Tank & Pipe Co., 318 Market St.

Tanks, Hard Rubber*N. J., Trenton*

Luzerne Rubber Co., Muirheid Ave.

Tanks, High Pressure*N. Y., New York City*

Kellogg Co., The M. W., 90 West St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Iron (see Tanks, Cast Iron)**Tanks, Jacketed***Cal., Los Angeles*

Llewellyn Iron Works

Mich., Bay City

MacKinnon Boiler & Machine Co.

Mich., Saginaw

Wickes Boiler Co.

N. J., Garwood

Beckley Perforating Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Devine Co., J. P.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Turl Iron & Car Co., Inc., 50 Broad St.

United Lined Tube & Valve Co., 111 Broadway

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Cincinnati

Day Co., J. H., 1144 Harrison Ave.

Pa., Coatesville

Coatesville Boiler Works

Pa., Philadelphia

Stokes Machine Co., F. J.

Tanks, Lead Lined*Colo., Denver*

Colorado Iron Works Co.

Ill., Chicago

• Eagle Tank Co., 2426 N. Crawford Ave.

Ky., Louisville

Caldwell Co., W. E.

N. Y., Brooklyn

Abernethy, John F., 703 Myrtle Ave.

N. Y., New York City

Acme Tank Co., 39 Cortlandt St.

United Lined Tube & Valve Co., 111 Broadway

N. Y., Olean

Luther Mfg. Co., 133 Railroad Ave.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Tanks, Lead Lined, Wood*Ohio, Cincinnati*

Hauser-Stander Tank Co.

Tanks, Mixing*Cal., Los Angeles*

Llewellyn Iron Works

Ind., Ft. Wayne

Bowser & Co., S. F.

Western Gas Construction Co.

Ky., Louisville

Caldwell Co., W. E.

*Md., Baltimore*Baltimore Cooperage Co., The
Bartlett Hayward Co.*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Wickes Boiler Co.

N. J., Burlington

Stuart & Peterson

N. Y., Brooklyn

Johnson Co., John, 37th St. and 2d Ave.

N. Y., Buffalo

Devine Co., J. P.

Sowers Mfg. Co., 1300 Niagara St.

N. Y., New York City

Acme Tank Co., 39 Cortlandt St.

Dover Boiler Works, 55 Church St.

Standard Tank Co., 15 Park Row

N. Y., Rochester

Pfaudler Co.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and Cambria Sts.

Tanks, Mixing, Enamel Lined*N. Y., Rochester*

Pfaudler Co., The

Tanks, Oil*Cal., San Francisco*

Pacific Tank & Pipe Co., 318 Market St.

England, Widnes

Widnes Foundry Co., Ltd., The

Md., Baltimore

Bartlett Hayward Co.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Coatesville

Coatesville Boiler Works

Pa., Hamburg, Berks Co.

Hamburg Boiler Works

Tanks, Oil, Fusel*Mass., Cambridge*

Riverside Boiler Works, Inc., 491 Main St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Oil, Lubricating*Mass., Cambridge*

Riverside Boiler Works, Inc., 491 Main St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Oil Refining*Ind., Fort Wayne*

Western Gas Construction Co.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Niles

Standard Boiler & Plate Iron Co.

Tanks, Oil Storage*Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Bartlett Hayward Co.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Coatesville

Coatesville Boiler Works

Tanks, Oxygen*N. Y., New York City*

Welding Supply Co., Inc., 132 Nassau St.

Tanks, Paint and Varnish*N. Y., Rochester*

Pfaudler Co., The

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Perforated False Bot-
toms***Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Petroleum***England, Widnes*

Widnes Foundry Co., Ltd., The

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Pickling***N. Y., New York City*

General Ceramics Co., 50 Church St.

Duriron Castings Co., 90 West St.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Tanks, Plating*Mich., Kalamazoo*

Kalamazoo Tank & Silo Co.

Tanks, Pneumatic*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.*Pa., Hamburg, Berks Co.*

Hamburg Boiler Works

Tanks, Powder*Md., Baltimore*

Baltimore Cooperage Co., The

Tanks, Power*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Pressure***Ind., East Chicago*

Graver Tank Works, Wm.

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore

Baltimore Cooperage Co., The

*Mass., Cambridge*Riverside Boiler Works, Inc., 491 Main
St.*Mich., Muskegon*

Muskegon Boiler Works, Eighth St.

*Mo., St. Louis*Ruemmeli-Dawley Mfg. Co., 3900
Chouteau Ave.*N. J., Garwood*

Beckley Perforating Co., North Ave.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Stevens Bros., Singer Bldg.

N. Y., New York City

Dover Boiler Works, 55 Church St.

Standard Tank Co., 15 Park Row

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.*Ohio, Lectonia*

Lectonia Boiler Co., Kunkel Bldg.

Ohio, Niles

Standard Boiler & Plate Iron Co.

Pa., Coatesville

Coatesville Boiler Works

Pa., Conshohocken

Wood Mfg. Co., John

Pa., Pittsburgh

Scaife & Sons Co., Wm. B., 221 1st Ave.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

**Tanks, Pressure, Cylindrical
Steel***Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Rectangular***Cal., San Francisco*Pacific Tank & Pipe Co., 318 Market
St.*Md., Baltimore*

Baltimore Cooperage Co., The

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Redwood***Cal., San Francisco*Pacific Tank & Pipe Co., 318 Market
St.*N. Y., New York City*

Acme Tank Co., 39 Cortlandt St.

Tanks, Rendering*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Rubber Lined***N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Self Measuring*Ind., Ft. Wayne*

Bowser & Co., Inc., S. F.

Tanks, Sprinkler*Ill., Chicago*Chicago Bridge & Iron Works, 37 W.
Van Buren St.*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.*Pa., Hamburg, Berks Co.*

Hamburg Boiler Works

Tanks, Soda Washing*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Steam Jacketed, Agitating*N. Y., Rochester*

Pfaudler Co.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Steel***Ind., Fort Wayne*

Western Gas Construction Co.

Md., Baltimore

Baltimore Cooperage Co., The

Bartlett Hayward Co.

Codd Co., E. J., 700 S. Caroline St.

Mich., Detroit

Detroit Range Boiler Co.

Welded Steel Barrel Corp.

Mich., Muskegon

Muskegon Boiler Works

N. Y., Buffalo

Devine Co., J. P.

N. Y., New York City

American Bridge Co., 30 Church St.

Burhorn Co., Edwin, 71 Wall St.

Dover Boiler Works, 55 Church St.

*N. Y., Woodbury*Hodges Water Still Co., Inc., 33 S.
Broad St.*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.*Ohio, Cleveland*

Bartlett & Snow Co., C. O.

Pa., Coatesville

Coatesville Boiler Works

Tanks, Steel, Glass Enamel Lined*N. Y., Rochester*

Pfaudler Co., The

Tanks, Steel, Galvanized*Md., Baltimore*

Baltimore Cooperage Co., The

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

Stevens Bros., Singer Bldg.

Tanks, Steel Rendering*Ill., Chicago*

Redfield, Robert S., 327 S. La Salle St.

*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Steel, Seamless***Ohio, Elyria*

Elyria Enameled Products Co.

Pa., Hamburg, Berks Co.

Hamburg Boiler Works

Tanks, Steel, Welded*N. Y., New York City*Cave Welding & Mfg. Co., 32 Liberty
St.*Ohio, Akron*Biggs Boiler Works Co., Bank and
Williams Sts. and B. & O. R. R.**Tanks, Stone***Ill., Monmouth*

Western Stoneware Co.

*N. J., Newark*Hanson & Van Winkle Co., 269 Oliver
St.*N. Y., New York City*

Alberene Stone Co., 223 E. 23d St.

General Ceramics Co., 50 Church St.

Graham Chemical Pottery Works, The
Charles, 986 Metropolitan Ave.*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Tanks, Storage*England, Widnes*

Widnes Foundry Co., Ltd., The

*Ill., Batavia*U. S. Wind Engine & Pump Co., 30
Water St.*Ill., Chicago*Chicago Bridge & Iron Works, 37 W.
Van Buren St.*Ind., East Chicago*

Graver Tank Works, Wm.

Ind., Ft. Wayne

Wayne Oil Tank & Pump Co.

Western Gas Construction Co.

*Md., Baltimore*Baltimore Cooperage Co., The
Bartlett Hayward Co.

Tanks, Storage—cont.**Mich., Muskegon**

Muskegon Boiler Works, Eighth St.

N. J., Garwood

Beckley Perforating Co.

N. Y., New York City

Dover Boiler Works, 55 Church St.

General Ceramics Co., 50 Church St.

Standard Tank Co., 15 Park Row

N. Y., Rochester

Pfaudler Co., The

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Ohio, Leetonia

Leetonia Boiler Co., Kunkel Bldg.

Pa., Pittsburgh

Scaife & Sons Co., Wm. B., 221 1st Ave.

Wis., Milwaukee

Milwaukee Boiler Co., 220 Oregon St.

Tanks, Storage, Cylindrical Steel**Md., Baltimore**

Bartlett Hayward Co.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Storage, Oil**Ind., Fort Wayne**

Western Gas Construction Co.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Storage, Rectangular Open Top**Ohio, Akron**

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Storage, Underground**N. Y., New York City**

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Tar**Ind., Fort Wayne**

Western Gas Construction Co.

Md., Baltimore

Bartlett Hayward Co.

N. Y., New York City

Dover Boiler Works, 50 Church St.

N. Y., Rochester

Pfaudler Co., The

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Tin Lined (see Tanks, Lead Lined)**Tanks, Tower****Ga., Newnan**

Cole Mfg. Co., R. D.

Tanks, Transportation, Steel**Ohio, Akron**

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Alliance

Reeves Bros. Co., 338 Rush St.

Tanks, Turpentine**England, Widnes**

Widnes Foundry Co., Ltd.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Vacuum**N. Y., Buffalo**

Devine Co., J. P.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water**Cal., San Francisco**

Pacific Tank & Pipe Co., 318 Market St.

Ind., Fort Wayne

Western Gas Construction Co.

N. Y., New York City

Dover Boiler Works, 50 Church St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Pa., Hamburg, Berks Co.

Hamburg Boiler Works

Tanks, Water Cooling**N. J., Jersey City**

Koven & Bro., L. O., 154 Ogden Ave.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water, Pneumatic**Ind., Fort Wayne**

Western Gas Construction Co.

Md., Baltimore

Baltimore Cooperage Co., The

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water Storage*Mass., Cambridge*

Riverside Boiler Works, Inc., 491 Main St.

• *Ohio, Akron*

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water Tempering*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Welded*Ill., Chicago*

Mohr & Sons, John, 349-359 W. Illinois St.

Mass., Cambridge

Riverside Boiler Works, Inc., 491 Main St.

Mich., Detroit

Welded Steel Barrel Corp.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Brooklyn

Meurer Steel Barrel Co.

N. Y., Buffalo

Devine Co., J. P.

N. Y., Rochester

Pfaudler Co., The

Ohio, Akron

Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Pa., Carbondale

American Welding Co.

Pa., Meadville

Phoenix Iron Works Co.

Pa., Pittsburgh

Scaife & Sons Co., Wm. B., 221 1st Ave.

Tanks, Wood, Electroplating*N. J., Jersey City*

Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Galvanizing*N. J., Jersey City*

Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Mixing*N. J., Jersey City*

Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Nickelplating*N. J., Jersey City*

Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Photo-developing*N. J., Jersey City*

Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Pickeling*N. J., Jersey City*

Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Steep*Ill., Batavia*

U. S. Wind Engine & Pump Co., 30 Water St.

Tanks, Wooden*Cal. San Francisco*

Pacific Pipe & Tank Co., 318 Market St.

Ill., Batavia

Challenge Co.

U. S. Wind Engine & Pump Co., 30 Water St.

Ill., Chicago

Eagle Tank Co., 2426 N. Crawford Ave.

Wendnagel & Co., 22d and Jefferson Sts.

Ky., Louisville

Caldwell Co., W. E.

Md., Baltimore

Baltimore Cooperage Co.

Mich., Kalamazoo

Kalamazoo Tank & Silo Co.

N. J., Hoboken

Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.

N. J., Jersey City

Corcoran, Inc., A. J., 763 Vesey Ave.

N. J., Newark

Hanson & Van Winkle Co., 269 Oliver St.

N. Y., New York City

Acme Tank Co., 39 Cortlandt St.

Ohio, Cincinnati

Hauser-Stander Tank Co., 2118 Division St.

Ore., Portland

National Tank & Pipe Co., 275 Oak St.

Pa., Philadelphia

Woolford Wood Tank Mfg. Co., G., 1429 Chestnut St.

Tanks, Zinc Lined*N. Y., New York City*

Acme Tank Co., 39 Cortlandt St.

Tannin Extract Machinery*Pa., Philadelphia*

Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Tanning Machinery*Del., Wilmington*

Slocomb & Co., Inc., F. F.

Mass., Boston

Badger & Sons Co., E. B., 73 Pitts St.

Lummus Co., Walter E., 173 Milk St.

Mass., Peabody

Turner Tanning Machinery Co.

N. Y., Buffalo

Sowers Mfg. Co.

Tape, Adhesive Transparent*Mass., Framingham*

Dennison Mfg. Co.

Tape, Cloth, Gunned*Mass., Framingham*

Dennison Mfg. Co.

Tar Dehydrating Apparatus*Pa., Pittsburgh*

Koppers Co., H.

Tar Distilling Plants (*see also**Stills, Oil*)*England, Stanningley, nr. Leeds*

Leeds & Bradford Boiler Co., Ltd., The

Md., Baltimore

Bartlett Hayward Co.

Pa., Pittsburgh

Koppers Co., H.

Scotland, Glasgow

Blair, Campbell & McLean, Ltd.,

Woodville St., Govans

Tar Testing Apparatus*Pa., Philadelphia*

*Thomas Co., Arthur H., W. Washington Sq.

Tees*Ohio, Akron*

Goodrich Co., B. F.

Telescope, Reading*Ill., Chicago*

Gaertner & Co., Wm., 5345 Lake Park Ave.

Temperature Control Instruments (*see also* *Recorders and Regulators*)*N. Y., Brooklyn*

Tagliabue Mfg. Co., C. J., 18-88 33d St.

Test Tubes (*see* *Tubes, Tests; see* *Laboratory Apparatus and Equipment*)**Testers** (*see* *Specific Headings*)**Testers, for Butter Fat***Ill., Chicago*

Mojonnier Bros. Co., 833 W. Jackson Blvd.

Testers, Calorimeter*N. Y., New York City*

Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Gas*N. Y., New York City*

Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Gravity*N. Y., New York City*

Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Hardness*N. Y., New York City*

Holz, Herman A., 1 Madison Ave.

Palo Co., 90 Maiden Lane

Pa., Pittsburgh

*Scientific Materials Co., 711 Forbes St.

Testers, Milk (Babcock)*Ill., Chicago*

Creamery Package Mfg. Co., 61 W. Kinzie St.

Mojonnier Bros. Co., 833 W. Jackson Blvd.

Mass., Brighton

International Equipment Co., 352 Western Ave.

Testers, Naphthalene*N. Y., New York City*

Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Overrun*Ill., Chicago*

Mojonnier Bros. Co., 833 W. Jackson Blvd.

Testers, Sulphur*N. Y., New York City*

Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testing Apparatus, By-Product*Pa., Pittsburgh*

Scientific Materials Co., 711-19 Forbes St.

Testing Instruments (*see also* *Specific Headings*)

Testing Machines (*see also Specific Headings*)

Ill., Chicago

- *Central Scientific Co., 460 E. Ohio St.
- *Daigger & Co., A., 52-56 W. Kinzie St.

Mass., Boston

- International Equipment Co., 352 Western Ave.

N. Y., New York City

- *Eimer & Amend, 205-211 3d Ave.
- Holz, Herman A., 1 Madison Ave.
- Palo Co., 90-92 Maiden Lane

Pa., Philadelphia

- Olsen Testing Machine Co., Tinius, 500 N. 12th St.

- Riehle Bros. Testing Machine Co., 1424 N. 9th St.

- *Thomas Co., Arthur H., W. Washington Sq.

Thawers

N. Y., Brooklyn

- Hauck Mfg. Co., 101-113 11th St.

Ohio, Cincinnati

- Macleod Co., The, 2232-36 Bogen St.

Thermit

N. Y., New York City

- Metal & Thermit Corporation, 120 Broadway

Thermocouples (*see Pyrometers*)

Thermometers, Dry Bulb

Conn., Waterbury

- Bristol Co.

Thermometers, Electrical

Conn., Waterbury

- Bristol Co.

Mass., Foxboro

- Foxboro Co., Inc.

Conn., Waterbury

- Bristol Co.

N. J., Newark

- Hanovia Chemical & Mfg. Co., Chestnut St. and New Jersey Railroad Ave.

N. Y., Brooklyn

- Schaeffer & Budenberg Mfg. Co., Berry and South 5th Sts.

N. Y., New York City

- Engelhard, Charles, 30 Church St.

N. Y., Rochester

- Taylor Instrument Cos.

Pa., Philadelphia

- Brown Instrument Co.
- Leeds & Northrup Co.

- Precision Thermometer & Instrument Co., 1434 Brandywine St.

- *Thomas Co., Arthur H., W. Washington Sq.

- Thwing Instrument Co., 436 N. 5th St.

Thermometers, High Range

N. Y., Brooklyn

- Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.

N. Y., Rochester

- Taylor Instrument Cos.

Thermometers, Indicating

N. Y., Brooklyn

- Tagliabue Mfg. Co., C. J., 18-88 33d St.

Thermometers, Laboratory

N. Y., Brooklyn

- Tagliabue Mfg. Co., C. J., 18-88 33d St.

Thermometers, Mercurial

Mass., Boston

- Standard Thermometer Co.

N. Y., Brooklyn

- Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.

N. Y., Brooklyn

- Schaeffer & Budenberg Mfg. Co., Berry and South 5th Sts.

N. Y., Rochester

- Taylor Instrument Cos.

Pa., Philadelphia

- Brown Instrument Co.
- Precision Thermometer & Instrument Co., 1434 Brandywine St.

Thermometers, Recording

Ill., Chicago

- *Central Scientific Co., 460 E. Ohio St.

- *Daigger & Co., A., 52-56 W. Kinzie St.

- *Laboratory Materials Co., 640 E. 71st St.

- Schaar & Co., 1025 S. State St.

Mass., Boston

- American Steam Gauge & Valve Mfg. Co.

- Ashton Valve Co., 271 Franklin St.

- Crosby Steam Gauge & Valve Co., 40 Central St.

- Standard Thermometer Co., 65 Shirley St.

Mass., Foxboro

- Foxboro Co., Inc.

N. J., Rutherford

- Becton, Dickinson & Cos.

N. Y., Brooklyn

- Berg Mfg. Co., 3707 12th Ave.

- National Gauge Co., 300 Pacific St.

- Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.

- Tagliabue Mfg. Co., C. J., 18-88 33d St.

Thermometers, Recording—cont.*N. Y., New York City*

American Thermo-Ware Co., 16 Warren St.

Berge, J. & H., 95 John St.

Eimer & Amend, 211 3d Ave.

*Engelhard, Chas., 30 Church St.

Greiner Co., The Emil, Fulton and Cliff Sts.

*Lenz Apparatus Co., Inc., 18 E. 16th St.

Scientific Utilities Co., Inc., 84 E. 10th St.

N. Y., Rochester

Taylor Instrument Cos.

Pa., Carbondale

Griebel Instrument Co.

Pa., Philadelphia

Brown Instrument Co.

Caloris Co., 2110 Alleghany Ave.

Philadelphia Thermometer Co., 9th and Arch Sts.

Queen-Gray Co., 616-620 Chestnut St
Quimby Engineering Co., 450 N. 10th St.

*Thomas Co., Arthur H., W. Washington Sq.

Williams-Brown & Earle, 918 Chestnut St.

Pa., Pittsburgh

*Scientific Materials Co., 711 Forbes St.

Thermometers, Refrigerating*N. Y., New York City*

Schwenker, Inc., W. M., 340-344 E. 92d St.

Thermometers, Registering (see Thermometers, Recording)**Thermometers, Wet Bulb***Conn., Waterbury*

Bristol Co.

Thermostats*Conn., Waterbury*

Bristol Co.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.

National Regulator Co., 208 S. Jefferson St.

Powers Regulator Co., 5 S. Wabash Ave.

Mass., Boston

Standard Thermometer Co., 65 Shirley St.

Mass., Foxboro

Foxboro Co., Inc.

N. J., Newark

American Thermostat Co., 101 Mechanic St.

Thermo Electric Instrument Co.

N. Y., Brooklyn

Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

Sarco Co., Inc., 235 Broadway

Pa., Philadelphia

Steele Glass Co., 622 Locust St.

Thermostats, Electric*Ill., Chicago*

Central Scientific Co., 460 E. Ohio St.

*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

N. J., Newark

Thermo Electric Instrument Co., 8 Johnson St.

N. Y., Albany

Consolidated Car Heating Co.

N. Y., New York City

Equitherm Control Corp., 30 Church St.

Wis., Milwaukee

Johnson Service Co.

Thickeners*N. Y., New York City*

Dorr Co., The, 17 Battery Pl.

Industrial Filtration Corporation, 115 Broadway

Thickeners, Slime*Cal., San Francisco*

Oliver Continuous Filter Co., 503 Market St.

Colo., Denver

Colorado Iron Works Co.

Dorr Co.

Ill., Chicago Heights

Chalmers & Williams, Inc.

N. Y., New York City

Dorr Co., 101 Park Ave.

Pa., Allentown

Traylor Engineering & Mfg. Co.

Thimbles, Extraction*Mass., Worcester*

Norton Co., New Bond St.

N. Y., New York City

Reeve, Angel & Co., Inc., H., 120 Liberty St.

Tiering Machines*N. J., Jersey City*

Revolator Co., 344-352 Garfield Ave.

Tile, Acid Proof*Ga., Atlanta*

Hood Brick Co., B. Mifflin

Mass., Boston

Eastern Clay Goods Co., 141 Milk St.

*Mo., St. Louis*Laclede-Christy Clay Products Co.,
Sulphur and Manchester Aves.*N. Y., New York City*

General Ceramics Co., 50 Church St.

Maurer & Son, Henry, 120 E. 23d St.

Sidio Co. of America, Inc., 37 Murray
St.Thermal Syndicate, Ltd., The, 50 E.
41st St.*N. C., Charlotte*

Chemical Construction Co.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Tile, Chemical (*see Tile, Acid Proof*)**Tile, Cork***Pa., Pittsburgh*Armstrong Cork Co., 23d and Alle-
ghany River**Tile, Drain***Ind., Evansville*

Uhl Pottery Co.

Tile, Fire Clay*Colo., Denver*

Denver Fire Clay Co.

*Ga., Atlanta*Hood Brick Co., B. Mifflin, Candler
Bldg.*Mo., St. Louis*Laclede-Christy Clay Products Co.,
1673 Railway Exchange Bldg.*Pa., Curwensville*

Crescent Refractories Co.

Timers, Interval*Ill., Chicago*Victor Electric Corporation, 236 S.
Robey St.**Tin***Ill., Chicago*Great Western Smelting & Refining
Co.*Mich., Detroit*

Michigan Smelting & Refining Co.

N. J., Arlington

Delaware Tin Corporation

N. Y., Brooklyn

Atlantic Smelting & Refining Co.

*N. Y., New York City*American Smelting & Refining Co., 120
Broadway

Nassau Smelting & Refining Works

United Lined Tube & Lead Co., 111
Broadway**Tin Hydrants***N. Y., Elmira*

Kennedy Valve Mfg. Co.

Toluol Plants*Md., Baltimore*

Bartlett Hayward Co.

*Mass., Boston*Badger & Sons Co., E. B., 63-75 Pitts
St.*N. Y., Buffalo*

Devine Co., J. P.

*Scotland, Glasgow*Blair, Campbell & McLean, Ltd.,
Woodville St., Govans**Tongs***Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daiger & Co., A., 52-56 W. Kinzie St.

Mich., Detroit

Hoskins Mfg. Co., 453 Lawton Ave.

*N. J., Newark*American Platinum Works, 225 N. J.
R. R. Ave.

Baker & Co., Inc.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

New Jersey Foundry & Machine Co.,
88 West St.*Pa., Malvern*

Bishop & Co., J., Platinum Works

*Pa., Philadelphia**Thomas Co., Arthur H., W. Washing-
ton Sq.**Tongs, Lifting***Mass., Boston*

Lummus Co., Walter E., 173 Milk St.

Tools, High Speed*Ohio, Cleveland*

Cleveland Twist Drill Co.

Tools, Machine*N. Y., New York City*

Niles-Bement-Pond Co., 111 Broadway

Ohio, Cincinnati

Houston-Stanwood & Gamble Co., The

Torches, Adjustable*Iowa, Cedar Rapids*

Johnson Gas Appliance Co.

Torches, Cutting and Welding

Ind., Indianapolis
Presto-Lite Co.
Mich., Detroit
Clayton & Lambert Mfg. Co.
N. J., Jersey City
Davis-Bournonville Co.
N. J., Newark
International Oxygen Co., 796 Freling-
huysen Ave.
N. Y., Brooklyn
Hauck Mfg. Co., 101-113 Eleventh St.
N. Y., New York City
Oxy-Acetylene Appliance Co., 149
Broadway
Ohio, Canton
Sun Vapor & Street Light Co.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
Pa., Philadelphia
Hero Mfg. Co.
Pa., Pittsburgh
Carbo-Hydrogen Co.

Torches, Gas

Iowa, Cedar Rapids
Johnson Gas Appliance Co., 520 E.
Ave. W.

Torpedoes

Conn., New Haven
Marlin Arms Corp.

Tourills

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, W. J.
Ohio, East Akron
Knight, Maurice A.

**Tower Pipe, Bottoms and In-
termediators**

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Ohio, Akron
U. S. Stoneware Co.

Towers, Absorbing

N. J., Newark
Acid Proof Iron Products Co.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
N. Y., New York City
Duriron Castings Co., 90 West St.
Thermal Syndicate, Ltd., 50 E. 41st St.

N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineer-
ing Co., 21 S. 12th St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Towers, Acid, Metal

Ky., Louisville
Caldwell & Co., A. E.
Mass., Boston
Badger & Sons Co., E. B.
Lummas Co., Walter E.
Mass., Fall River
Scott & Co., Ernest
N. J., Newark
Acid Proof Iron Products Co.
N. Y., New York City
Abernathy, John F., 703 Myrtle Ave.
Duriron Castings Co., 90 West St.
Kalbperry Corporation, 31 Union
Square W.
N. C., Charlotte
Chemical Construction Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Towers, Acid Proof

Ga., Atlanta
Hood Brick Co., B. Mifflin
Ill., Monmouth
Western Stoneware Co.
Mass., Boston
New England Tank & Tower Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Kalbperry Corporation, 31 Union
Square, W.
Thermal Syndicate, Ltd., 50 E. 41st
St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wash., Tacoma
Far West Clay Co., 224-228 Tacoma
Bldg.

Towers, Concentrating

N. Y., New York City
Kalbperry Corporation, 31 Union
Square, W.

Towers, Concrete

Ill., Chicago
Weber Chimney Co., 332 S. Michigan Ave.

• **Towers, Condensing** (*see Towers, Cooling*)

Towers, Cooling

Ia., Burlington
Murray Iron Works Co.
Mo., St. Louis
Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Cooling Tower Co., 17 John St.
Worthington Pump & Machinery Corp., 115 Broadway
Pa., Philadelphia
Wheeler Mfg. Co., C. H.
Pa., Sharon
Petroleum Iron Works Co.

Towers, Denitration (*see also Towers, Acid Proof*)

N. Y., New York City
Duriron Castings Co., 90 West St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Towers, Gay-Lussac

N. C., Charlotte
Chemical Construction Co.
N. Y., New York City
Abernathy, John F., 703 Myrtle Ave.
Kalbperry Corporation, 31 Union Square, W.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Electro-Chemical Supply & Eng. Co., 21 S. 12th St.

Towers, Glover

N. C., Charlotte
Chemical Construction Co.
N. Y., New York City
Kalbperry Corporation, 31 Union Square, W.
Thermal Syndicate, Ltd., 50 E. 41st St.

Towers, Masonry

N. C., Charlotte
Chemical Construction Co.

Towers, Sprinkler, Automatic

Md., Baltimore
Baltimore Cooperage Co., The

Towers, Steel

Cal., Los Angeles
Llewellyn Iron Works
Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Wendnagel & Co., 22d and Jefferson Sts.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Baltimore Cooperage Co., The
N. Y., Buffalo
Buffalo Foundry & Machine Co.

Towers, Sulphur, Wood

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Weber Chimney Co., 332 N. Michigan Ave.

Towers, Tanks (*see Tanks, Various Headings*)

Towers, Transmission

Cal., Los Angeles
Llewellyn Iron Works
Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
N. Y., New York City
American Bridge Co., 30 Church St.

Towers, Wooden

Ky., Louisville
Caldwell Co., W. E., Brook and D Sts.
Md., Baltimore
Baltimore Cooperage Co., The

Track, Industrial

Mich., Detroit
Northern Engineering Works
N. Y., New York City
Easton Car & Construction Co., 30 Church St.
Ohio, Cleveland
Lakewood Engineering Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.

Tractors, Storage Battery

Ohio, Cleveland
Lakewood Engineering Co., Station "G"

Trailers (*see Cars, Industrial*)

Tramrail Equipment*Ill., Harvey*

Whiting Foundry Equipment Co.

Tramways, Gravity Surface*Colo., Denver*

Colorado Iron Works Co.

Transformers, Electric*Ill., Chicago*

Victor Electric Corporation, 236 S. Robey St.

N. J., Newark

American Transformer Co., 174-182 Emmet St.

Weston Electrical Instrument Co.

N. Y., New York City

Western Electric Co., 463 West St.

N. Y., Schenectady

General Electric Co.,

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Transits*N. Y., Rochester*

Bausch & Lomb Optical Co.

Taylor Instrument Cos.

N. Y., Troy

Gurley, W. & L. E.

Transmission Machinery (*see**Conveying Machinery*)**Traps, Air***Ill., Chicago*

Chicago Pneumatic Tool Co., Fisher Bldg.

Ia., Marshalltown

Fisher Governor Co.

N. Y., Brooklyn

Wilfert Co., John, 258 Broadway

Traps, Amalgam*Colo., Denver*

Colorado Iron Works Co., 33d and Wynkoop St.

Traps, Cast Iron*N. J., East Burlington*

U. S. Cast Iron Pipe & Foundry Co.

Traps, Steam*Ill., Chicago*

Crane Co.

Imperial Brass Mfg. Co.

Ia., Marshalltown

Dunham Co.

Fisher Governor Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co.

d'Este Co., Julian, 26 Canal St.

Sturtevant Co., B. F.

N. J., Camden

Warren Webster & Co.

N. Y., Brooklyn

Acton, John, 118 John St.

Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.

N. Y., New York City

Mott Iron Works, J. L., 118 5th Ave.

Sarco Co., Inc., 235 Broadway

Simmons Co., John, 110 Centre St.

N. Y., Woodbury

Hodges Water Still Co., Inc., 33 S. Broad St.

Ohio, Cincinnati

Williams Valve Co.

Ohio, Cleveland

Strong, Carlisle & Hammond Co.

Traps, Steam, Vacuum*N. Y., New York City*

Sarco Co., Inc., 229 Broadway

Simmons Co., John, 110 Centre St.

Travelers*Ill., Chicago*

Link-Belt Co., W. 39th St. and Stewart Ave.

Trays, Dryer*Ohio, Cleveland*

Vitreous Enameling Co., Grant Ave. near 71st St.

Trays, Metal*Ala., Birmingham*

American Cast Iron Pipe Co.

N. J., Burlington

U. S. Cast Iron, Pipe & Foundry Co.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

Pa., Fullerton

Fuller-Lehigh Co.

Trays, Stoneware*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Thermal Syndicate, Ltd., The, 50 E. 41st St.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Trays, Steel*Ill., Aurora*

Lyon Metallic Mfg. Co.

Trays, Wooden

- N. Y., New York City*
Aimone Mfg. Co., 430 E. 23d St.
Stokes & Co., Wm. A., 50 Howard St.
• *N. J., Rochester*
Rochester Stamping Co.

Trees, Hard Rubber

- N. J., Trenton*
Luzerne Rubber Co., Muirheid Ave.

Triangles

- Mich., Detroit*
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. J., Newark
American Platinum Works, 225 N. J.
R. R. Ave.
Baker & Co., Inc
N. Y., New York City
Sidio Co. of America, Inc., 37 Murray
St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Malvern
Bishop & Co., Platinum Works J.

Trinitrotoluol Plants

- Mass., Boston*
Badger & Sons Co., E. B., 63-75 Pitts
St.
Lumms Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.

Tripods

- Ill., Chicago*
Chicago Pneumatic Tool Co., Fisher
Bldg.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ingersoll-Rand Co.
N. Y., Troy
Gurley, W. & L. E.

Triturators

- N. Y., Newburgh*
Coldwell-Wilcox Co.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Pa., Philadelphia
Cresson-Morris Co., 18th and Alle-
ghany Ave.

Trolleys

- Ill., Harvey*
Whiting Foundry Equipment Co.

Trommels (see Screens)

- Colo., Denver*
Colorado Iron Works Co.

- Ill., Chicago*
Weller Mfg. Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Troughs, Steel

- Ill., Chicago*
Link-Belt Co., W. 39th St. and Stewart
Ave.
N. Y., New York City
Turl Iron & Car Co., Inc., 50 Broad St.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Coatesville
Coatesville Boiler Works

Troughs, Stoneware

- N. Y., New York City*
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Truck Frames

- Ohio, Leetonia*
Leetonia Boiler Co., Kunkel Bldg.

Trucks, Electric

- N. Y., New York City*
General Electric Co.
Ohio, Cleveland
Lakewood Engineering Co.

Trucks, Fibre Receptacles

- Pa., Bridgeport*
Diamond State Fibre Co.

Trucks, Industrial

- Colo., Denver*
Colorado Iron Works Co.
Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Harvey
Whiting Foundry & Equipment Co.
Mass., Boston
Sturtevant Co., B. F.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Fairbanks Co.
Howe Scale Co., 341 Broadway

Trucks, Storage Battery

- N. Y., Schenectady*
General Electric Co.
Ohio, Cleveland
Lakewood Engineering Co., Station
"G"

Trucks, Vulcanizing*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Tube Cleaners*Conn., Hartford*

Roto Co.

N. Y., Buffalo

General Specialty Co., 291-295 Michigan Ave.

Pierce Co., William B., 45 N. Division St.

N. Y., Troy

Monarch Steam Blower Co.

Ohio, Springfield

Lagonda Mfg. Co., 1809 Sheridan Ave.

Pa., Pittsburgh

Liberty Mfg. Co., 6907 Susquehanna St.

Tube Closers*Ohio, Cincinnati*

Day & Co., J. H., 1144 Harrison Ave.

Tubes, Acid Condensing*Ala., Birmingham*

American Cast Iron Pipe Co.

N. J., Burlington

U. S. Cast Iron & Pipe Co.

N. J., Newark

Acid Proof Iron Products Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Stevens Bros., Singer Bldg.

U. S. Lined Tube & Valve Co., 165 Broadway

Ohio, Akron

U. S. Stoneware Co.

Ohio, Akron

Knight, Maurice A.

Pa., Pittsburgh

National Tube Co., Frick Bldg.

Tubes, Acid Condensing, Glass*N. Y., Corning*

Corning Glass Works

Pa., Pittsburgh

Macbeth-Evans Glass Co.

Pa., Rochester

Fry Glass Co., H. C.

Tubes, Aluminum*Conn., New Haven*

United Smelting & Aluminum Co., Inc.

Pa., Pittsburgh

Aluminum Co., of America, Oliver Bldg.

Tubes, Alundum*Mass., Worcester*

Norton Co., New Bond St.

Tubes, Asbestos*N. Y., New York City*

Johns-Manville Mfg. Co.

Tubes, Brass, Copper, Bronze*Conn., Waterbury*

American Brass Co.

Md., Baltimore

Baltimore Tube Co.

Mich., Detroit

Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

N. Y., New York City

Hungerford & Co., U. T., 82 Lafayette St.

Tubes, Calcium Chloride*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Pa., Carbondale

Griebel Instrument Co.

Tubes, Carbon*Ohio, Cleveland*

National Carbon Co.

Pa., Carbondale

Griebel Instrument Co.

Tubes, Cast Iron*Ala., Birmingham*

American Cast Iron Pipe Co.

Cal., Los Angeles

Llewellyn Iron Works

Ill., Chicago

Caldwell & Son Co., H. W., 17th and Western Ave.

Crane Co.

Link-Belt Co., W. 39th and Stewart Ave.

N. J., East Burlington

U. S. Cast Iron Pipe & Foundry Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co.

Tubes, Centrifuge*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Tubes, Collapsible*Conn., New London*

New England Collapsible Tube Co.

Tubes, Combustion*Colo., Golden*

Herold China & Pottery Co.

N. Y., Corning

Corning Glass Works

N. Y., New York City

Thermal Syndicate, Ltd., 50 E. 41st St.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Pa., Rochester

Fry Glass Co., H. C.

Tubes, Condenser*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

N. Y., New York City

Duriron Castings Co., 90 West St.

Thermol Syndicate, Ltd., 50 E. 41st St.

Pa., Rochester

Fry Glass Co., H. C.

Tubes, Condensing (*see Tubes, Acid Condensing*)**Tubes, Condensite Celoron***Pa., Bridgeport*

Diamond State Fibre Co.

Tubes, Connecting*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

Tubes, Cooledge*N. Y., Schenectady*

General Electric Co.

Tubes, Cooling*N. J., East Burlington*

U. S. Cast Iron Pipe & Foundry Co.

N. Y., New York City

Stevens Bros., Singer Bldg.

Thermal Syndicate, Ltd., 50 E. 41st St.

United Lined Tube & Valve Co., 111 Broadway

Tubes, Crystolon*Mass., Worcester*

Norton Co., New Bond St.

Tubes, Culture*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

Tubes, Distilling*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

Tubes, Drawn*N. Y., New York City*

Thermal Syndicate, Ltd., 50 E. 41st St.

Tubes, Filter*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

Pa., Rochester

Fry Glass Co., H. C.

Tubes, Funnel*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

N. Y., Corning

Corning Glass Works

Tubes, Glass (*see Glassware, Chemical*)**Tubes, Laminated***Ill., Chicago*

Redmanol Chemical Products Co., 636 W. 22d St.

Tubes, Outer Protection*Mass., Worcester*

Norton Co., New Bond St.

Mich., Detroit

Hoskins Mfg. Co., 453-71 Lawton Ave.

Tubes, Phosphorus*N. Y., Rochester*

Will Corporation

Tubes, Pneumatic*Mass., Boston*

Lamson & Co., 100 Boylston St.

Tubes, Pyrometer*Colo., Golden*

Herold China & Pottery Co.

Mich., Detroit

Hoskins Mfg. Co.

N. Y., New York City

Sidio Co. of America, Inc., 37 Murray St.

Thermal Syndicate, Ltd., 50 E. 41st St.

N. Y., Niagara Falls

Carborundum Co.

Tubes, Pyrometer Alundum'*Mass., Worcester*

Norton Co., New Bond St.

Tubes, Seamless, Brass*Md., Baltimore*

Baltimore Tube Co.

Tubes, Tapered, Zirconia Combustion*Pa., Pittsburgh*

Crucible Steel Co. of America

Tubes, Test*Ill., Chicago*

*Central Scientific Co., 460 E. Ohio St.

*Daigger & Co., A., 52-56 W. Kinzie St.

N. J., Vineland

Doerr Glass Co., Peach St. and Boulevard

N. Y., New York City

Berge, J. & H., 95 John St.

*Eimer & Amend, 205-211 3d Ave.

Maris & Co., J. M., 40 Barclay St.

Scientific Utilities Co., Inc., 84 E. 10th St.

*Thermal Syndicate, Ltd., The, 50 E. 41st St.

Pa., Carbondale

Griebel Instrument Co.

Pa., Philadelphia

Fairmount Glass Works, 828 N. 23d St.

Steele Glass Co., 622 Locust St.

*Thomas Co., Arthur H., W. Washington Sq.

Whitall-Tatum Co., 410 Race St.

Pa., Pittsburgh

Scientific Materials Co

Tubes, Thistle*N. Y., Rochester*

Will Corporation

Tubes, Vulcanized Fibre*Pa., Bridgeport*

Diamond State Fibre Co.

Tubes, X-Ray*N. Y., Schenectady*

General Electric Co.

Tubing, Acid*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

Thermal Syndicate, Ltd., 50 E. 41st St.

Ohio, Akron

Goodrich Rubber Co., B. F., S. Main St.

Tubing, Alkali*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

Tubing, Alloy*Ohio, Shelby*

Ohio Seamless Tube Co.

Tubing, Aluminum*Pa., Philadelphia*

Ivins Tube Works, Ellwood, Oak Lane Station

Pa., Pittsburgh

Aluminum Co. of America

Tubing, Barometer*N. Y., Corning*

Corning Glass Works

Tubing, Brass*Conn., Bridgeport*

Bridgeport Glass Co.

Conn., Waterbury

American Brass Co.

Randolph-Clowes Co., The

Mich., Detroit

Detroit Copper & Brass Rolling Mills

Tubing, Brass and Copper (Seamless)*Conn., Waterbury*

American Brass Co.

Chase Rolling Mill Co.

Randolph-Clowes Co., The

Conn., Bridgeport

Bridgeport Brass Co.

Ill., Chicago

Crane Co., 836 S. Michigan Ave.

Md., Baltimore

Baltimore Tube Co.

N. Y., New York City

Hungerford Brass & Copper Co., V. T.,

Lafayette, White and Franklin Sts.

Rutter, Arthur T., 256-257 Broadway

Pa., Erie

Erie-Buffalo Tube Co., 1227 W. 18th St.

Tubing, Canvas*Mo., St. Louis*

Bemis Bros. Gag Co.

Tubing, Condenser*Conn., Waterbury*

American Brass Co., The

Md., Baltimore

Baltimore Tube Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Hungerford Brass & Copper Co., U. T.,

80 Lafayette Ave.

N. Y., Rome

Rome Brass & Copper Co.

Tubing, Copper*Conn., Bridgeport*

Bridgeport Brass Co.

Tubing, Fibre

- Conn., Bridgeport*
Diamond State Fibre Co.
Del., Wilmington
• American Vulcanized Fibre Co.

Tubing, Flexible Metal

- Conn., Waterbury*
American Metal Hose Co.
Pa., Philadelphia
Pennsylvania Flexible Metallic Tubing Co.

Tubing, Glass

- N. J., Vineland*
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
Pa., Pittsburgh
Macbeth-Evans Co.
Pa., Rochester
Fry Glass Co., H. C.

Tubing, Lead

- N. Y., Brooklyn*
Standard Rolling Mill, 363 Hudson Ave.
N. Y., New York City
National Lead Co., 111 Broadway
United Lined Tube & Lead Co., 111 Broadway
Pa., Bridgeport
Summerill Tubing Co.
Pa., Philadelphia
Ivins Tube Works, Ellwood, Oak Lane Station

Tubing, Platinum (Seamless)

- N. J., Newark*
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Tubing, Rubber

- Conn., Bridgeport*
Canfield Rubber Co., 129 Garden St.
Ill., Chicago
• Central Scientific Co., 460 E. Ohio St.
• Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
• Knott Apparatus Co., L. E., Cambridge "A" Station
Mass., Chelsea
Revere Rubber Co.
N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.
• Eimer & Amend, 205-211 3d Ave.
U. S. Rubber Co., 1790 Broadway

Ohio, Akron

- Goodrich Co., B. F.
Ohio, Ashland
Faultless Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
• Thomas Co., Arthur H., W. Washington Sq.
• Whitall-Tatum Co., 410 Race St.
R. I., Bristol
National India Rubber Co.

Tubing, Steel

- Pa., Pittsburgh*
National Tube Co.

Tubing, Steel (Seamless)

- Pa., Philadelphia*
Ivins' Tube Works, Ellwood, Oak Lane Station
Pa., Pittsburgh
National Tube Co., 1902 Frick Bldg.
Pittsburgh Steel Products Co.

Tubing, Thermometer

- N. Y., Corning*
Corning Glass Works

Tubing, Syringe

- Mass., Andover*
Tyer Rubber Co.

Tubs, Acid

- Mass., Boston*
Badger & Sons Co., E. B.
N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
General Ceramics Co., 50 Church St.
Van Emden Co., H., 145 W. 45th St.

Ohio, Akron

- U. S. Stoneware Co.
Ohio, Cincinnati
Hauser-Standard Tank Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Tubs, Dye

- Ill., Batavia*
U. S. Wind Engine & Pump Co., 30 Water St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tubs, Etching

Ohio, East Akron
Knight, Maurice A.

Tubs, Wood

Ill., Batavia

U. S. Wind Engine & Pump Co., 30
Water St.

N. Y., New York City

Acme Tank Co., 39 Cortlandt St.

Ohio, Cincinnati

Hauser-Stander Tank Co.

Turbines

Conn., Hartford

Terry Steam Turbine Co.

Mass., Boston

Sturtevant Co., B. F., Hyde Park

N. J., Trenton

De Laval Steam Turbine Co.

N. Y., Schenectady

General Electric Co.

Ohio, Cleveland

Wellman-Seaver-Morgan Co.

Pa., East Pittsburgh

Westinghouse Electric & Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Turntables

Colo., Denver

Colorado Iron Works Co.

Ill., Harvey

Whiting Foundry Equipment Co.

N. Y., New York City

Easton Car & Construction Co., 30
Church St.

Pa., Philadelphia

Brill Co., J. G.

Turpentine Apparatus

Mass., Boston

Lummus Co., The Walter E.

Tuyeres, Blast Furnace

Colo., Denver

Colorado Iron Works Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Tweezers, Platinum

N. J., Newark

American Platinum Works, 225 N. J.
R. R. Ave.

Baker & Co., Inc., 54 Austin St.

Pa., Malvern

Bishop & Co., Platinum Works, J.

Ultra-Violet Ray Apparatus

Ill., Chicago

Victor Electric Corporation, W. Jack-
son Blvd.

N. Y., Schenectady

General Electric Co.

Unions (see Couplings, Fittings)**Unloaders**

Ill., Aurora

Barber-Greene Co.

Ill., Chicago

Brown Portable Conveying Machinery
Co., 12 S. La Salle St.

Caldwell & Son Co., H. W., 17th St.
and Western Ave.

Fairbanks Morse & Co., 902 S. Wabash
Ave.

Link-Belt Co., W., 39th and Stewart
Ave.

Weller Mfg. Co., 1820 N. Koestner
Ave

Mass., Boston

Sturtevant Co., B. F., Hyde Park

Mo., St. Louis

Fulton Iron Works

Ohio, Bucyrus

American Clay Machinery Co.

Ohio, Cleveland

Wellman-Seaver-Morgan Co.

Ohio, Columbus

Jeffrey Mfg. Co.

Wis., Milwaukee

Chain Belt Co

Urea Apparatus

N. Y., New York City

Squibb & Sons., E. R., 80 Beekman St.

Vacuum Apparatus

Mass., Boston

Badger & Sons Co., E. B., 63-75 Pitts
St.

Lummus Co., Walter E., 173 Milk St.

Mass., Fall River

Scott & Co., Ernest

Mich., Saginaw

Werner & Pfleiderer Co., Inc.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry
and Fillmore Aves.

Devine Co., J. P.

Zaremba Co., Morgan Bldg.

N. Y., New York City

General Ceramics Co., 50 Church St.

Hospital Supply Co., 53 5th Ave.

United Lined Tube & Valve Co., 111
Broadway

Pa., Philadelphia

Stokes Machine Co., F. J., 17th and
Cambria Sts.

Vacuum Dryers (see Dryers, Vacuum)

Vacuum Filters (*see Filters, Vacuum*)

Vacuum Kneaders and Mixers
(*see Kneaders, Vacuum*)

Vacuum Pans (*see Pans, Vacuum*)

Vacuum Pumps (*see Pumps, Vacuum*)

Valves, Acetylene

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Welding Supply Co., Inc., 132 Nassau St.

Valves, Acid

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Crane Co., 839 S. Michigan Ave.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
American Steam Gauge & Valve Co.
Boston Belting Co., 84 Linden Park St.
Walworth Mfg. Co., 142 High St.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. Y., Brooklyn
Johnson Co., John
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Everlasting Valve Co., 2 Rector St.
General Ceramics Co., 50 Church St.
Sarco Co., Inc., Woolworth Bldg.
Simmons Co., John, 110 Center St.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Akron
Goodrich Co., B. F.
U. S. Stoneware Co.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
Ohio, East Akron
Knight, Maurice A.
Pa., Coatesville
Coatesville Boiler Works
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Philadelphia
Ott Co., George F., 213 Buttonwood St.
Schutte & Koerting Co., 12th & Thompson Sts.

Pa., Pittsburgh
National Tube Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., York
York Mfg. Co.

Valves, Air

Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
Crane Co., 836 S. Michigan Ave.
Ind., Connersville
Connersville Blower Co.
Iowa, Marshalltown
Dunham Co., C. A.
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Crosby Steam Gauge & Valve Mfg. Co.
Walworth Mfg. Co., 142 High St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Sarco Co., Inc., Woolworth Bldg.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Valves, Air Relief
Ill., Chicago
Crane Co., 826 S. Michigan Ave.
Ind., Connersville
Connersville Blower Co.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Alkali*Ill., Chicago*

Crane Co.

Ia., Marshalltown

Fisher Governor Co.

*Mass., Boston*American Steam Gauge & Valve Co.
Boston Belting Co., 84 Linden Park St.*Neb., Omaha*

Baker Ice Machine Co.

N. J., New Brunswick

Brunswick Refrigerating Co.

*N. Y., New York City*De La Vergne Machine Co.
Everlasting Valve Co., 2 Rector St.
Welding Supply Co., Inc., 132 Nassau St.*Ohio, Cincinnati*

Triumph Ice Machine Co.

Wis., Milwaukee

Vilter Mfg. Co.

Valves, Ammonia (*see Valves, Alkali*)**Valves, Angle***Ill., Chicago*American Radiator Co., 816 S. Michigan Ave.
Crane Co., 836 S. Michigan Ave.*Mass., Boston*American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Walworth Mfg. Co., 142 High St.*N. Y., Elmira*

Kennedy Valve Mfg. Co.

*N. Y., New York City*Duriron Castings Co., 90 West St.
United Lined Tube & Valve Co., 111 Broadway*N. Y., Rockville Centre, Long Island*

Nassau Valve & Pump Co., Inc.

Wis., Milwaukee

Allis Chalmers Mfg. Co.

Valves, Angle Check, Chemetal*N. Y., L. I., Rockville Centre*

Nassau Valve & Pump Co., Inc.

Valves, Angle, Chemetal*N. Y., L. I., Rockville Centre*

Nassau Valve & Pump Co., Inc.

Valves, Back Pressure*Iowa, Marshalltown*

Fisher Governor Co.

Mass., Boston

Walworth Mfg. Co., 142 High St.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Balance (*see Valves, Float*)**Valves, Balanced Float***Ill., Bataria*

U. S. Wind Engine & Pump Co., 30 Water St.

N. Y., Troy

Ludlow Valve Mfg. Co.

*Pa., Pittsburgh*Homestead Valve Mfg. Co., 406 Sixth Ave.
Pittsburgh Valve, Foundry & Construction Co.**Valves, Blast Furnace***Ind., Connersville*

Connersville Blower Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Blow-Off*Mass., Boston*

American Steam Gauge & Valve Mfg. Co.

*N. Y., New York City*American Car & Foundry Co., 165 Broadway
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.*Ohio, Cincinnati*

Powell Co., The Wm., 2521 Spring Grove Ave.

*Pa., Pittsburgh*Homestead Valve Mfg. Co., P. O. Box 1754
Pittsburgh Valve Foundry & Construction Co.**Valves, Blow-Off, Chemetal***N. Y., L. I., Rockville Centre*

Nassau Valve & Pump Co., Inc.

Valves, Boiler*Ill., Chicago*

Crane Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Ohio, Cincinnati

Powell Co., The Wm., 2521 Spring Grove Ave.

Pa., Pittsburgh

Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Brass*Ill., Chicago*

Crane Co.

Ia., Marshalltown

Fisher Governor Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Fairbanks Co.

Jenkins Brothers, 80 White St.

N. Y., Troy

Ludlow Valve Mfg. Co.

Pa., Homestead

Homestead Valve Mfg. Co.

Pa., Pittsburgh

National Tube Co.

Valves, Brass Regrinding*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Ohio, Cincinnati

Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Bronze (see Valves, Brass)**Valves, Butterfly***Ill., Chicago*

Crane Co., 816 S. Michigan Ave.

Iowa, Marshalltown

Fisher Governor Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, By Pass*Ill., Chicago*

Crane Co., 836 S. Michigan Ave.

Iowa, Marshalltown

Fisher Governor Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co., 208 Camden St.

N. Y., Elmira

Kennedy Valve Mfg. Co.

Ohio, Cincinnati

Lunkenheimer Co.

Valves, Check*Conn., Hartford*

Pratt & Cady Co., Inc.

Ill., Chicago

American Radiator Co., 816 S. Michigan Ave.

Crane Co., 836 S. Michigan Ave.

Ind., Connersville

Connersville Blower Co.

Iowa, Marshalltown

Fisher Governor Co.

Mass., Boston

American Steam Gauge Valve & Mfg. Co., 208 Camden St.

Mass., Foxboro

Foxboro Co., Inc.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

General Ceramics Co., 50 Church St.

Sarco Co., Inc., Woolworth Bldg.

United Lined Tube & Valve Co., 111 Broadway

N. Y., Rockville Centre, Long Island

Nassau Valve & Pump Co., Inc.

N. Y., Seneca Falls

Gould Mfg. Co.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Chlorine*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Welding Supply Co., Inc., 132 Nassau St.

Valves, Coke Ovens*Iowa, Marshalltown*

Dunham Co., C. A.

Fisher Governor Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

Pa., South Bethlehem

Bethlehem Foundry & Machine Co.

Valves, Cross*Ill., Chicago*

Crane Co., 816 S. Michigan Ave.

Iowa, Marshalltown

Fisher Governor Co.

N. Y., New York City

Sarco Co., Inc., Woolworth Bldg.

N. Y., Rockville Centre, Long Island

Nassau Valve & Pump Co., Inc.

Valves, Cylinder*Iowa, Marshalltown*

Fisher Governor Co.

N. J., Newark

International Oxygen Co., 796 Frelinghuysen Ave.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Diaphragm, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Disc

Ill., Chicago
Crane Co., 826 S. Michigan Ave.

Iowa, Marshalltown
Fisher Governor Co.

N. Y., Elmira
Kennedy Valve Mfg. Co.

Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Duplex Oil Tank

Ia., Dubuque
McDonald Mfg. Co., A. Y.

Valves, Electric, Steam, H.P.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Valves, Electric, Steam, L.P.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Valves, Exhaust

Ill., Chicago
Crane Co., 826 S. Michigan Ave.

Iowa, Marshalltown
Fisher Governor Co.

N. Y., Elmira
Kennedy Valve Mfg. Co.

Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Float

Ill., Chicago
Crane Co.

Ia., Marshalltown
Fisher Governor Co.

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Fairbanks Co., 416 Broome St.
Simmons Co., John
Wilfert Co., John, 259 Broadway

Pa., Homestead
Homestead Valve Mfg. Co.

Pa., Philadelphia
Schutte & Koerting Co., 12th & Thompson Sts.

Valves, Furnace (see Valves, Blast Furnace)**Valves, Gas**

Ind., Connersville
Connersville Blower Co.

Ind., Fort Wayne

Western Gas Construction Co.

Md., Baltimore
Bartlett Hayward Co.

Mich., Detroit
Steere Engineering Co., Woodward Ave.

N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.

N. Y., Elmira
Kennedy Valve Mfg. Co.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Everlasting Valve Co., 2 Rector St.

Ohio, Cleveland
Gas Machinery Co.

Pa., Homestead
Homestead Valve Mfg. Co.

Pa., Pittsburgh
National Tube Co.
Pittsburgh Valve Foundry and Construction Co.

Valves, Gas and Air

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Everlasting Valve Co., 2 Rector St.

Valves, Gate

Ill., Chicago
Crane Co.

Ind., Fort Wayne
Western Gas Construction Co.

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co.

N. Y., Elmira
Kennedy Valve Mfg. Co.

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Fairbanks Co., 416 Broome St.

N. Y., Troy
Ludlow Valve Mfg. Co.

Ohio, Mansfield
Ohio Brass Co.

Pa., Pittsburgh
National Tube Co., Frick Bldg.

Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.

Valves, Gate, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Generator

N. Y., New York City
Everlasting Valve Co., 2 Rector St.

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Globe*Ill., Chicago*

Crane Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co.

Crosby Steam Gauge & Valve Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

Fairbanks Co.

United Lined Tube & Valve Co., 111 Broadway

Ohio, Mansfield

Ohio Brass Co.

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St.

Pa., Pittsburgh

National Tube Co.

Pa., York

York Mfg. Co.

Valves, Globe, Chemetal*N. Y., L. I., Rockville Centre*

Nassau Valve & Pump Co., Inc

Valves, High Pressure*Ill., Chicago*

Crane Co.

Mass., Boston

Crosby Steam Gauge & Valve Co.

N. Y., New York City

American Car & Foundry Co., 165 Broadway

Everlasting Valve Co., 2 Rector St.

Fairbanks Co.

N. Y., Troy

Ross Valve Mfg. Co.

Ohio, Cincinnati

Triumph Ice Machine Co

Ohio, Cleveland

Lennox Chemical Co., The, 1201 E. 55th St.

Pa., Pittsburgh

National Tube Co.

Valves, High Pressure, Hydrogen*N. Y., Buffalo*

Sherwood Mfg. Co., 1710 Elmwood Ave

Valves, High Pressure, Oxygen*N. Y., Buffalo*

Sherwood Mfg. Co., 1710 Elmwood Ave.

Valves, High Pressure, Steam*N. Y., Albany*

Consolidated Car Heating Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Pa., Homestead

Homestead Valve Mfg. Co.

Wis., Milwaukee

Allis-Chalmers Mfg. Co.

Valves, Horizontal Check, Chemetal*N. Y., L. I., Rockville Centre*

Nassau Valve & Pump Co. Inc.

Valves, Hydraulic*Conn., Hartford*

Pratt & Cady Co.

Ill., Chicago

Crane Co.

Ia., Marshalltown

Fisher Governor Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co.

Boston Belting Co., 84 Linden Park St.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

American Car & Foundry Co., 165 Broadway

Jenkins Bros., 80 White St.

Wilfert Co., John, 259 Broadway

Ohio, Mt. Gilead

Hydraulic Press Mfg. Co.

Pa., Homestead

Homestead Valve Mfg. Co.

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St.

Pa., Pittsburgh

National Tube Co.

Valves, Hydrogen*N. Y., New York City*

Welding Supply Co., Inc., 132 Nassau St.

Valves, Indicator*Ill., Chicago*

Crane Co., 816 S. Michigan Ave.

Ohio, Cincinnati

Launkheimer Co

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St.

Valves, Iron*Ind., Fort Wayne*

Western Gas Construction Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Jenkins Brothers, 80 White St.

Pa., Williamsport

Darling Pump & Mfg. Co., Ltd.

Valves, Iron Body*N. Y., Elmira*

Kennedy Valve Mfg. Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Jenkins Brothers, 80 White St.

Valves, Iron, Lead Lined*N. Y., New York City*

United Lined Tube & Lead Co., 111 Broadway

Valves, Iron, Regrinding*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Ohio, Cincinnati

Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Lead Check*Pa., Philadelphia*

Monarch Mfg. Works, 3129 Emery St.

Valves, Lead Lined*N. J., Perth Amboy*

Chemical Pump & Valve Co., Inc.

N. Y., Brooklyn

Johnson Co., John, 37th and 2d Ave.

N. Y., New York City

United Lined Tube & Lead Co., 111 Broadway

Worthington Pump & Machinery Corporation

Pa., Philadelphia

Monarch Mfg. Works, Inc., 3129 Emery St.

Valves, Lead Stop*Pa., Philadelphia*

Monarch Mfg. Works, 3129 Emery St.

Valves, Lever (see also Valves, Float)*Ill., Chicago*

Crane Co., 816 S. Michigan Ave.

Iowa, Marshalltown

Fisher Governor Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Liquid Carbonic Acid Gas*N. Y., New York City*

Welding Supply Co., Inc., 132 Nassau St.

Valves, Low Pressure*Iowa, Marshalltown*

Fisher Governor Co.

Mass., Boston

Walworth Mfg. Co., 142 High St.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Valves, Mixing, Gas (see Valves, Gas)**Valves, Natural Gas** (see Valves, Gas)**Valves, Non-Return***Ill., Chicago*

Crane Co., 816 S. Michigan Ave.

Mass., Boston

Walworth Mfg. Co., 142 High St.

Ohio, Cincinnati

Lankenheimer Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Oil*Mass., Boston*

American Steam Gauge & Valve Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Equitherm Control Corp., 30 Church St.

Everlasting Valve Co., 2 Rector St.

Fairbanks Co.

Valves, Oil and Air*N. Y., Elmira*

Kennedy Valve Mfg. Co.

N. Y., New York City

Equitherm Control Corp., 30 Church St.

Everlasting Valve Co., 2 Rector St.

Fairbanks Co.

Valves, Oil and Steam*N. Y., Elmira*

Kennedy Valve Mfg. Co.

N. Y., New York City

Equitherm Control Corp., 30 Church St.

Everlasting Valve Co., 2 Rector St.

Fairbanks Co.

Valves, Oil Burner*N. Y., Elmira*

Kennedy Valve Mfg. Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Ohio, Cincinnati

Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Oil Resisting*Mass., Boston*

Boston Belting Co., 84 Linden Park St.

N. Y., New York City

• Everlasting Valve Co., 2 Rector St.

Valves, Operating*Ill., Chicago*

Crane Co., 816 S. Michigan Ave.

Iowa, Marshalltown

Fisher Governor Co.

N. Y., Elmira

Kennedy Valve Mfg. Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Oxygen*N. Y., New York City*

Welding Supply Co., Inc., 132 Nassau St.

Valves, Phosgen*N. Y., New York City*

Welding Supply Co., Inc., 132 Nassau St.

Valves, Pressure*Ill., Chicago*

Crane Co., 816 S. Michigan Ave.

Iowa, Marshalltown

Dunham Co.

Fisher Governor Co.

Mass., Boston

American Steam Gauge & Valve Mfg. Co., 208 Camden St.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., Rockville Centre, Long Island

Nassau Valve & Pump Co., Inc.

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St.

Valves, Pump*Conn., Bridgeport*

Canfield Rubber Co.

Del., Wilmington

American Vulcanized Fibre Co.

Delaware Hard Fibre Co.

Mass., Boston

Boston Belting Co., 84 Linden Park St.

N. J., Passaic

Dick, Ltd., R. & J.

N. Y., New York City

Gutta Percha & Rubber Mfg. Co., 128 Duane St.

Johns-Manville Co., H. W., 41st St. and Madison Ave.

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Pa., Philadelphia

Quaker City Rubber Co.

Valves, Pump, Acid Proof*N. Y., New York City*

Rebele, L. J., 50 Church St.

Valves, Quarter-Turn, Acid Resisting Bronze*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Pa., Pittsburgh

Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Quarter-Turn, Brass*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Pa., Pittsburgh

Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Quarter-Turn, Semi-Steel*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Pa., Pittsburgh

Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Reducing*Ill., Chicago*

American Radiator Co., 816 S. Michigan Ave

Crane Co., 836 S. Michigan Ave.

Ia., Marshalltown

Dunham Co., C. A.

Fisher Governor Co.

*Mass., Boston*Boston Belting Co., 84 Linden Park St.
d'Este Co., Julian, 26 Canal St.*N. J., Newark*

International Oxygen Co., 796 Frelinghuysen Ave.

N. Y., New York City

Sarco Co., Inc., 237 Broadway

N. Y., Troy

Ross Valve Mfg. Co.

Ohio, Cincinnati

Triumph Ice Machine Co.

Pa., Pittsburgh

Pittsburgh Valve Foundry & Construction Co.

Valves, Regulating (see Valves, Reducing)**Valves, Relief (see Valves, Air Relief)**

Valves, Standpipe*Ill., Bataria*U. S. Wind Engine & Pump Co., 30
Water St.*Pa., Pittsburgh*Pittsburgh Valve Foundry & Con-
struction Co.**Valves, Steam Jacketed***N. Y., Buffalo*

Devine Co., J. P.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

Valves, Steam Reducing*N. Y., Brooklyn*Tagliabue Mfg. Co., C. J., 18-88 33d
St.**Valves, Steel, Cast***N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Jenkins Brothers, 80 White St.

Valves, Stoneware*N. Y., New York City,*

General Ceramics Co., 50 Church St.

Graham Chemical Pottery Works, The
Charles, 986 Metropolitan Ave.*Ohio, Akron*

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Valves, Stop*Ill., Chicago*American Radiator Co., 816 S. Michi-
gan Ave.

Crane Co., 836 S. Michigan Ave.

Ind., Connersville

Connersville Blower Co.

Iowa, Marshalltown

Dunham Co., C. A.

Fisher Governor Co.

*Mass., Boston*American Steam Gauge & Valve Mfg.
Co., 208 Camden St.Crosby Steam Gauge & Valve Mfg.
Co.

Walworth Mfg. Co., 142 High St

Mass., Foxboro

Foxboro Co., Inc.

N. Y., Elmira

Kennedy Valve Mfg. Co.

N. Y., New York City

Duriron Castings Co., 90 West St.

Sarco Co., Inc., Woolworth Bldg.

N. Y., Rockville Centre, Long Island

Nassau Valve & Pump Co., Inc.

Ohio, Cincinnati

Lunkenheimer Co.

Pa., Philadelphia

Wood & Co., D. R., 400 Chestnut St.

*Pa., Pittsburgh*Pittsburgh Valve Foundry & Con-
struction Co.*Pa., South Bethlehem*

Bethlehem Foundry & Machine Co.

Valves, Sulphur Dioxide*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Welding Supply Co., Inc., 132 Nassau
St.**Valves, Tank (see also Valves, Float)***Iowa, Marshalltown*

Fisher Governor Co.

*N. Y., Brooklyn*Johnson Co., John, 37th St. and 2d
Ave.*N. Y., New York City*

U. S. Rubber Co., 1790 Broadway

Pa., Homestead

Homestead Valve Mfg. Co.

Valves, Throttle*Ill., Chicago*

Crane Co., 826 S. Michigan Ave.

Iowa, Marshalltown

Fisher Governor Co.

Mass., Boston

Walworth Mfg. Co.

N. Y., New York City

Everlasting Valve Co., 2 Rector St.

*Pa., Pittsburgh*Pittsburgh Valve Foundry & Con-
struction Co.**Valves, Time***N. Y., Brooklyn*Tagliabue Mfg. Co., C. J., 18-88 33d
St.**Valves, Vacuum***Ill., Chicago*

Crane Co.

Ia., Marshalltown

Fisher Governor Co.

*Mass., Boston*American Steam Gauge & Valve Mfg.
Co.*N. Y., New York City*

Everlasting Valve Co., 2 Rector St.

Fairbanks Co.

Sarco Co., Inc., 237 Broadway

Ohio, Cincinnati

Triumph Ice Machine Co.

Pa., Philadelphia

Ott Co., George F.

Valves, Vertical Check, Che-metal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Water

N. Y., New York City
Equitherm Control Corp., 30 Church St.
Everlasting Valve Co., 2 Rector St.

Valves, Y, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Vanners, Frue

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Chalmers & Williams, Inc.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Vapor Proof Fixtures

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Varnish and Oil Boiling Plants

N. Y., New York City
Kalbperry Corporation, 31 Union Square, W.

Vats (see Tubs, Acid)**Vats, Acid Proof Stone**

Ill., Monmouth
Western Stoneware Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Vats, Dye (see also Tanks)

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
New England Tank & Tower Co.
N. J., Jersey City
Corcoran Co., Inc., A. J.
Koven & Bro., L. O., 151 Ogden Ave.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Oat & Sons, Joseph, 230 Quarry St.

Vats, Lead Lined

N. Y., Brooklyn
Abernethy, John F., 703 Myrtle Ave.

Vats, Rectangular

N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.

Vats, Wood

Ill., Batavia
Challenge Co.
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Eagle Tank Co., 2426 N. Crawford Ave.
N. J., Hoboken
Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Ohio, Cincinnati
Hauser-Stouder Co.
Pa., Philadelphia
Woolford Wood Tank Mfg. Co., G., 1429 Chestnut St.

Vegetable Extract Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Ventilating Systems

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.
Hig Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Sturtevant Co., B. F.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.
Gerdes & Co., Inc., 30 Church St.
Mott Iron Works, J. L., 118 5th Ave.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Braeuer Air Conditioning Corporation, La Fayette Bldg.
R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.

Ventilators (*see Ventilating Systems*)**Ventilators, Glass Window***R. I., Providence*

Ideal Ventilator Co., 99 Stewart St.

Vials*N. J., Vineland*

Doerr Glass Co., Peach St. and Boulevard

Vibrators, Pneumatic*Conn., Branford*

Malleable Iron Fittings Co.

Ill., Chicago

Victor Electric Corporation, W. Jackson Blvd.

Ohio, Cleveland

Osborn Mfg. Co.

Viscose Machinery*Mich., Saginaw*

Werner & Pfeiderer Co., 1260 N. Niagara St.

Viscosimeters*Ill., Chicago*

Daigger & Co., A., 52-56 W. Kinzie St.

N. Y., Brooklyn

Howard & Morse, 1197-1211 De Kalb Ave.

Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City

*Eimer & Amend, 205-211 3d Ave.

N. Y., Rochester

Bausch & Lomb Optical Co.

Pa., Philadelphia

*Thomas Co., Arthur H., W. Washington Sq.

Pa., Pittsburgh

Scientific Materials Co.

Voltmeters*Conn., Waterbury*

Bristol Co.

Ill., Chicago

*Central Scientific Co., 460 E. Ohio St.

N. J., Newark

Weston Electrical Instrument Co., Waverly Park

N. J., Trenton

Pyroelectric Instrument Co., 636-640 E. State St.

N. Y., New York City

Pignolet, Louis M., 78 Cortlandt St.

Roller-Smith Co., 233 Broadway

Pa., Philadelphia

Biddle, James G., 1211-13 Arch St.

Brown Instrument Co.

Queen-Gray Co., 616-20 Chestnut St.

Vulcanizers*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Ohio, Akron

Biggs Boiler Works Co.

Goodrich Co., B. F.

Pa., Coatesville

Coatesville Boiler Works

Wall Coping*Mo., St. Louis*

Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Walls, Laboratory*Ill., Chicago*

Vitrolite Co., 133 W. Washington St.

Ware, Acid*Ill., Monmouth*

Western Stoneware Co.

N. Y., New York City

General Ceramics Co., 50 Church St.

Robinson Clay Products Co. of New York, Fuller Bldg.

Ohio, Akron

U. S. Stoneware Co.

Ohio, East Akron

Knight, Maurice A.

Warmers, Slide*Ill., Chicago*

Chicago Surgical & Electrical Co., 314 W. Superior St.

Washers, Acid*Md., Baltimore*

Bartlett Hayward Co.

Mass., Boston

Badger & Sons Co., R. E., 63-75 Pitts St.

N. J., Jersey City

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., Buffalo

Devine Co., J. P.

Washers, Air*Ill., Chicago*

Drying Systems, Inc., 320 Michigan Ave.

Ilg Electric Ventilating Co., 131 Whiting St.

Mass., Boston

Spray Engineering Co., 33 Federal St.

Sturtevant Co., B. F.

Mich., Detroit

American Blower Co.

Mich., Kalamazoo

Clarage Fan Co.

N. J., Camden

Webster & Co., Warren

Washers, Air—cont.*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

N. Y., New York City

• American Spray Co., 26 Cortlandt St.

Carrier Air Conditioning Co., 39 Cortlandt St.

Holly Pneumatic Systems, Inc., 145 W. 45th St.

Van Emden Co., H., 145 W. 45th St.

Washers, Alloy*N. Y., New York City*

U. S. Indestructible Gasket Co., 50 Church St.

Washers, Gum*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Washers, Lead*N. Y., New York City*

Rebele, L. J., 50 Church St.

Washers, Lead Alloys*N. Y., New York City*

Rebele, L. J., 50 Church St.

Washers, Leather*Mich., Detroit*

Detroit Leather Specialty Co., Inc., 15 Beecher St.

N. Y., New York City

Schieren Co., Chas. A., 30-38 Ferry St.

Washers, Metals*N. Y., New York City*

*Rebele, L. J., 50 Church St.

Washers, Oil*N. J., Jersey City*

Koven & Bro., L. O., 154 Ogden Ave.

Washers, Rubber*Mich., Saginaw*

Werner & Pfleiderer Co., 1260 N. Niagara St.

N. Y., New York City

U. S. Rubber Co., 1790 Broadway

Ohio, Akron

Goodrich Co., B. F.

Ohio, Cleveland

Mechanical Rubber Co.

Washers, Vulcanized Fibre*Del., Wilmington*

American Vulcanized Fibre Co.

Washing Equipment, Lithopone*N. Y., New York City*

Dorr Co., 101 Park Ave.

Washing Machines, Blue Prints*Ill., Chicago*

Pease Co., C. F., 219 W. Institute Pl.

Washing Processes*N. Y., New York City*

Dorr Co., The, 17 Battery Pl.

Washing Processes, Gas*Md., Baltimore*

Bartlett Hayward Co.

Waste Product Recovery Machinery*Ind., Fort Wayne*

Western Gas Construction Co.

Mass., Fall River

Scott & Co., Ernest

Mich., Saginaw

Werner & Pfleiderer, Inc.

N. C., Charlotte

Chemical Construction Co.

N. Y., Buffalo

Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

N. Y., New York City

Provost Engineering Corp., 220 Broadway

Water Analysis Apparatus*Pa., Pittsburgh*

Scientific Materials Co., 711 Forbes St.

Water Baths*Ill., Chicago*

Central Scientific Co., 460 E. Ohio St.

N. J., Newark

Thermo Electric Instrument Co.

N. Y., New York City

Eimer & Amend, 205-211 3d Ave.

Pa., Carbondale

Griebel Instrument Co.

Pa., Philadelphia

Boekel & Co., Wm., 518 Vine St.

Thomas Co., Arthur H., W. Washington Sq.

Water Baths, Laboratory, Enamel Lined*England, Deepfields, nr. Bilston, Staffs*

Cannon Iron Foundries, Ltd.

Water Cooling Appliances (*see**Air Conditioning and Air Purifying Apparatus*)

Water Distilling Apparatus*Mass., Fall River*

Scott & Co., Ernest, P. O. Box 259

N. J., Hampton

Standard Water Systems Co.

N. J., Newark

International Oxygen Co., 796 Frelinghuysen Ave.

N. J., Woodbury

Hodges Water Still Co., Inc., 33 S. Broad St.

N. Y., Brooklyn

Improved Appliance Co., 413-415 Kent Ave.

N. Y., New York City

Alberger Pump & Condenser Co., 140 Cedar St.

*Eimer & Amend, 205-211 3d Ave.

Pa., Philadelphia

Thomas Co., Arthur H., W. Washington Square

Pa., Waynesboro

Frick Co., Inc.

Water Gas Plants, Blue*Ind., Fort Wayne*

Western Gas Construction Co.

Water Purifying Apparatus (see Filters)**Water Softening Systems***Ill., Chicago*International Filter Co.
Power Plant Specialty Co., 1306 Monadnock Bldg.*Ind., Mishawaka*

Dodge Sales & Engineering Co.

Mass., Florence

Norwood Engineering Co.

N. J., Jersey City

Booth Co., L. M., 62 Hudson St.

N. Y., New York City

Industrial Filter Corporation, 115 Broadway

Pa., Philadelphia

American Water Softener Co., 1011 Chestnut St.

Harrison Safety Boiler Works, 3130 N. 17th St.

Pa., Pittsburgh

Scaife & Sons Co., Wm. B., 221 1st Ave.

Water Sterilizing Plants*Pa., Philadelphia*

American Water Softener Co., 10th and Chestnut Sts.

Water Supply Systems*N. Y., New York City*

Tirrill Gas Machine Lighting Co., 103 Park Ave.

Water Work Plants*Md., Baltimore*

Baltimore Cooperage Co., The

Waterproof Paper*Mass., Boston*

Flintkote Mfg. Co., 88 Pearl St.

Wattmeters*Conn., Waterbury*

Bristol Co.

N. J., Newark

Weston Electrical Instrument Co., Waverly Park

*N. Y., New York City*Bernard & Co., F. J., 70 Murray St.
Roller-Smith Co., 233 Broadway*Pa., Philadelphia*Biddle, James G., 1211-13 Arch St.
Brown Instrument Co.**Weighing Machinery (Automatic)***Ill., Chicago*

Streeter-Amet Weighing & Recording Co., 4101-5 Ravenwood Ave.

Mass., Boston

Sturtevant Mill Co.

Mich., Saginaw

Werner & Pfeiderer Co., 1260 N. Niagara St.

Willcox Engineering Co.

N. J., Newark

Automatic Weighing Machine Co., 134-140 Commerce St.

N. J., Passaic

Richardson Scale Co.

N. Y., New York City

American Kron Scale Co., 430 E. 53d St.

Conveying Weigher Co., 90 West St.

Electric Weighing Co., 180 13th Ave.

Fairbanks Co., 416 Broome St.

Weights (see Balances)**Weights, Laboratory (see Balances)****Weights, Metric, Precision***Colo., Denver*

Ainsworth & Sons, William, 2151 Lawrence St.

N. Y., New York City

Becker, Inc., Christian, 92 Reade St.

N. Y., Troy

Gurley, W. & L. E.

Utah, Salt Lake City

Keller Mfg. Co., G. P., 1388 S. State St.

Welding All Metals*Wis., Milwaukee*

Vilter Mfg. Co., 824 Clinton St.

Welding Apparatus*Ill., Chicago*

Bordette Mfg. Co.

Mass., Boston

Waterhouse Welding Co.

Md., Baltimore

Milburn Co., Alexander, 1420-1428 W. Baltimore St.

N. J., Newark

International Oxygen Co., 796 Frelinghuysen Ave.

N. Y., New York City

Air Reduction Sales Co., 120 Broadway

Linde Air Products Co., 42d St. Bldg.

Welding Supply Co., Inc., 132 Nassau St.

N. Y., Schenectady

General Electric Co.

Pa., Philadelphia

Messer Mfg. Co., 121 N. 7th St.

Welding Fluxes*Mass., Boston*

Waterhouse Welding Co.

Mo., St. Louis

Modern Engineering Co., 23d and Walnut Sts.

Pa., Philadelphia

Messer Mfg. Co., 121 N. 7th St.

Welding Rods*Mass., Boston*

Waterhouse Welding Co.

N. Y., New York City

Air Reduction Sales Co., 120 Broadway

Wheels, Felt*Ill., Chicago*

Rhodes & Co., James H., 153-159 W. Austin Ave

Wheels, Filtros*N. Y., Rochester*

General Filtration Co., Inc., Cutler Bldg.

Wheels, Grinding*Conn., Bridgeport*

Bridgeport Safety Emery Wheel Co., Inc.

Ill., Chicago

Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.

Mass., Waltham

Superior Corundum Wheel Co.

Waltham Grinding Wheel Co.

Mass., Worcester

Bay State Emery Wheel Co.

Norton Co.

Mich., Detroit

Detroit Grinding Wheel Co.

Star Corundum Wheel Co.

N. Y., Buffalo

National Grinding Wheel Co., Inc., 2984 Main St.

N. Y., Niagara Falls

Carborundum Co.

Ohio, Springfield

Safety Emery Wheel Co.

Pa., Philadelphia

Abrasive Material Co.

Pa., Rochester

Pittsburgh Grinding Wheel Co.

R. I., Providence

American Emery Wheel Works

Wheels, Sprocket*Del., Wilmington*

Walker & Elliott, Inc.

Ill., Chicago

Caldwell & Sons Co., H. W., 17th and Western Aves.

Ohio, Columbus

Jeffrey Mfg. Co.

Pa., Catasauqua

Lehigh Car, Wheel & Axle Works

Wheels, Traction*Del., Wilmington*

Walker & Elliott, Inc.

Pa., Catasauqua

Lehigh Car, Wheel & Axle Works

Windmills*Md., Baltimore*

Baltimore Cooperage Co.

Windmills, Steel*Ill., Batavia*

U. S. Wind Engine & Pump Co., 30 Water St

Windmills, Wood*Ill., Batavia*

U. S. Wind Engine & Pump Co., 30 Water St.

Wire, Brass and Copper*Conn., Southport*

O'Neill Wire Works, Joseph

Conn., Waterbury

American Brass Co.

Mich., Detroit

Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

N. J., Trenton

Roebbling's Sons Co., John A.

N. Y., New York City

Hungerford Brass & Copper Co., V. T., Lafayette, White and Franklin Sts.

Pa., Wilkes-Barre

Hazard Mfg. Co.

Wire Cloth*Conn., Southport*

O'Neill Wire Works, Joseph

Del., Wilmington

Walker & Elliott, Inc.

Ill., Chicago

Weller Mfg. Co., 1820-1856 N. Kostner Ave.

Mass., Cambridge

Morss & Whyte Co., Sidney and Pilgrim St.

Mass., Worcester

Weight Wire Co., 69 Hammond St.

Mich., Detroit

Michigan Wire Cloth Co., 536 Howard St.

N. J., Newark

Newark Wire Cloth Co., 222-28 Verona Ave.

N. J., Trenton

New Jersey Wire Cloth Co.

N. Y., Buffalo

Buffalo Wire Works Co., 480 Terrace St.

N. Y., Brooklyn

Howard & Morse, 1197-1211 De Kalb Ave.

N. Y., New York City

Multi-Metal Co., 251 W. 19th St.

Rogers Wire Works, Inc., 291 Broadway

Ohio, Cleveland

Tyler Co., W. S., Superior Ave. and 36th St.

Pa., Philadelphia

Darby & Sons Co., Inc., Edward, 233-235 Arch St.

Wire Cloth, Brass*Ohio, Cleveland*

Lindsay Wire Weaving Co., 14025 Aspinwall Ave.

Wire Cloth, Brass and Copper*N. Y., New York City*

Multi Metal Co., Inc., 251 W. 19th St

Wire Cloth, Galvanized*Ohio, Cleveland*

Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Mining*N. J., Newark*

Newark Wire Cloth Co.

Ohio, Cleveland

Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Monel Metal*N. J., Newark*

Newark Wire Cloth Co.

N. Y., New York City

Multi-Metal Co., Inc., 251 W. 19th St.

Ohio, Cleveland

Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Nickel, Bronze, and Steel*N. Y., New York City*

Multi Metal Co., Inc., 251 W. 19th St.

Wire Cloth, Phosphor Bronze*N. Y., New York City*

Multi Metal Co., Inc., 251 W. 19th St.

Ohio, Cleveland

Lindsay Wire Weaving Co., 14025 Aspinwall Ave.

Wire Cloth, Tinned*Ohio, Cleveland*

Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Twilled*N. J., Newark*

Newark Wire Cloth Co.

Ohio, Cleveland

Tyler Co., W. S., Superior Ave. and 36th St.

Wire, Cylinder*Conn., Southport*

O'Neill Wire Works, Joseph

Wire, Flat*Mass., Worcester*

Spencer Wire Co.

N. J., Trenton

Roebbling's Son Co., John A.

Wire Glass Products..*Pa., Philadelphia*

Pennsylvania Wire Glass Co., 914 Pennsylvania Bldg.

Wire, Iron and Steel*Mass., Boston*

Ward's Son, Edgar T., 50 Farnsworth St.

Mass., Worcester

Spencer Wire Co.

N. J., Trenton

Roebbling's Sons Co., John A.

Ohio, Youngstown

Youngstown Sheet & Tube Co.

Wire Machinery, Screw*Mass., Worcester*

Sleeper & Hartley, Inc., 68 Prescott St.

Wire Machines, Straightening and Cutting

Mass., Worcester
 Sleeper & Hartley, Inc., 68 Prescott St.

Wire, Magnet

Conn., New Haven
 Acme Wire Co.

Wire Netting

N. J., Newark
 Newark Wire Cloth Co.

N. J., Trenton
 New Jersey Wire Cloth Co.

Ohio, Cleveland
 Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Nickel

N. Y., New York City
 Haring, Ellsworth, 114-118 Liberty St.

Wire, Phos Bronze

Conn., Southport
 O'Neill Wire Works, Joseph

Wire, Piano

N. Y., New York City
 Montgomery & Co., Inc., 105-107 Fulton St.

Wire, Platinum

N. J., Newark
 American Platinum Works
 Baker & Co., Inc., 54 Austin St.

Pa., Malvern
 Bishop & Co. Platinum Works, J.

Pa., Philadelphia
 *Thomas Co., Arthur H., W. Washington Sq

Wire, Resistance

Mich., Detroit
 Hoskins Mfg Co., 453-471 Lawton Ave.

Wire Screen

N. Y., New York City
 Multi Metal Co., Inc., 251 W. 19th St.

Ohio, Cleveland
 Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Tool Steel

Pa., Monaca
 Pittsburgh Tool Steel Wire Co.

Wire, Weaving

Ohio, Cleveland
 Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Welding

Ill., Chicago
 Central Steel & Wire Co., 1119 N. Peoria St.

N. Y., New York City
 Swedish Iron & Steel Corp., 12 Platt St.

Wood Distillation Evaporators

Mass., Boston
 Badger & Sons Co., R. E., 63-75 Pitts St.

Lummas Co., The Walter E., 173 Milk St.

N. Y., Buffalo
 Buffalo Foundry & Machine Co.

Zaremba Co., Morgan Bldg.

Scotland, Glasgow
 Blair, Campbell & McLean, Ltd., Woodville St., Govan

Wood Preserving Machinery

N. Y., New York City
 Worthington Pump & Machinery Corp., 115 Broadway

Wooden Ware

N. Y., New York City
 Scientific Utilities Co., Inc., 84 E. 10th St.

Wool Fat Plants

Pa., West Chester
 Sharples Specialty Co., The

Worms, Acid Proof, Stoneware

Ohio, East Akron
 Knight, Maurice A.

Worms, Cooling

Ohio, Akron
 Weeks, A. J.

X-Ray Apparatus

Ill., Chicago
 Thordarson Electric Mfg. Co., 501 S. Jefferson St.

Victor Electric Corporation, 236 S. Robey St

Ind., Hammond
 Betz & Co., Frank S.

Mass., Lynn
 Campbell Electric Co.

N. Y., New York City
 Kny-Scheerer Co., 404 W. 27th St.

N. Y., Schenectady
 General Electric Co.

Ohio, Cincinnati
 Wocher & Son Co., Max, 19 W. 6th Ave. W.

Pa., Philadelphia
 Queen-Gray Co., 618 Chestnut St.

X-Ray Bulbs

N. Y., Corning
Corning Glass Works

X-Ray Developing Tanks

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.

X-Ray Shields

N. Y., Corning
Corning Glass Works

X-Ray Tubes

N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works

Xylidene Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts
St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Yokes, Agitator Driving

Mich., Saginaw, W. S.
Nickle, Frank H., 1321 N. Bond St.

Zeiss Ware

N. Y., New York City
*Eimer & Amend, 3rd Ave., 18th to
19th St
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washing-
ton Sq.

IV. MANUFACTURERS AND DEALERS OF EQUIPMENT

- Ala., Anniston*
 Kilby Car & Foundry Co.
- Ala., Birmingham*
 Ajax Metal Co.
 American Cast Iron Pipe Co.
 Birmingham Boiler Works
 Continental Gin Co.
 Graves Shale Paving Brick Co.
 Jefferson Powder Co.
- Ark., Eldorado*
 Eldorado Blow Pipe Co.
- Cal., Berkeley*
 *University Apparatus Co., 2229 McGee Ave.
- Cal., Fresno*
 Gearhart Oil Burner Co., 1314 Eye St.
- Cal., Los Angeles*
 Acme Brass Foundry Co., 860 N. Main St.
 Baker Iron Works, 950 N. Broadway
 Bishop & Co
 Braun Corporation, The, 363 New High St.
 Calkins Co., 348 N. Main St.
 Densmore-Stabler Refining Co., 2474 E. 9th St.
 Hoegee Co., Inc., W. H., 138 S. Main St.
 Lane Mill & Machinery Co., 106 W. 3d St.
 Llewellyn Iron Works, N. Main and Redondo
 National Percolators Co., 124 W. 9th St.
 Pacific Tank & Pipe Co., 318 Market St.
 Sirch, C. W., 126 W. 3d St.
 Southern Refining Co., 129 W. 2d St.
 Sunset Oil Refining Co., 307 W. 1st St.
 Union Oil Co. of Cal., 215 W. 7th St
 U. S. Flexible Metallic Tubing Co., 430 Boyd St.
 Wood Mfg. Co., 1832 E. 16th St.
- Cal., Emeryville, Oakland*
 Marchant Calculating Machine Co.
- Cal., Oakland*
 Oakland Blue Print Co.
 Commercial Building
 Senn Concentrator Co.
 Union Iron Works
 United Iron Works
- Cal., San Francisco*
 Associate Oil Co., Sharon Bldg.
 Bethlehem Shipbuilding Corporation
- *Braun-Knecht-Heimann Co., 584 Mission St.
 Claire, Justenian Co., 575 Market St.
 Cook Belting Co., H. N., 401 Howard St.
 Dill-Crossett, Inc., 235 Pine St.
 Gladding, McBean & Co., 148 Natoma St.
 Hendy Iron Works, Joshua, 75 Fremont St.
 Illinois-Pacific Glass Co., 15th and Folsom Ave.
 Johnson Co., S. T., 1337 Mission St.
 Lietz Co., A., 632 Commercial St.
 Merrill Metallurgical Co., 121 2d St.
 Oliver Continuous Filter Co., 505 Market St.
 Pacific Tank & Pipe Co., 318 Market St.
 Price Pump & Engine Co., G. W., 33 Stevenson St.
 Redwood Mfgs. Co., Hobart Bldg.
 Rees Blow Pipe Co., 340 7th St.
 Selby Smelting & Lead Co., Merchants Exchange Bldg.
 Senn Concentrator Co., 607 First National Bank Bldg.
 Smith, C. W., 16 Washington St.
 Union Iron Works Co., 214 Spear St.
 Western Pipe & Steel Co. of Cal., 444 Market St.
- Cal., Sacramento*
 Sacramento Burner & Oil Co.
- Cal., Torrance*
 Pacific Metal Products Co.
- Canada, Coblat, Ontario*
 Groch Centrifugal Flotation, Ltd.
- Canada, Montreal*
 Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.
- Colo., Denver*
 Ainsworth & Sons, Wm., 2151 Lawrence St.
 American Coal Reduction & By-Products Co.
 Colorado Iron Works Co., 33d and Wynkoop Sts.
 Denver Fire Clay Co., 1742 Champa St.
 Denver Iron Works Co., 30th and Blake Sts.
 Dorr Co., Cooper Bldg.
 Hendrie & Bolthoff Mfg. & Supply Co.
 Mine & Smelter Supply Co.

- Morse Bros. Machinery & Supply Co.,
 1732 Wazee St.
 Pierce, Lucius S., 1738 Broadway
 Shaw Pneumatic Tool Co., C. H., 35th
 and Wazee Sts.
 Stearns-Roger Mfg. Co., 1718-20 Cali-
 fornia St.
 Thompson Balance Co., 808 20th St.
Conn., Golden
 Herold China & Pottery Co.
Conn., Ansonia
 Ansonia Mfg. Co., River Road
 Farrell Foundry & Machine Co.
Conn., Branford
 Branford Iron Fittings Co
 Malleable Iron Fittings Co.
Conn., Bridgeport
 American Tube & Stamping Co.
 Ames Machine Co., Max.
 Bridgeport Brass Co.
 Bridgeport Crucible Co.
 Bridgeport Malleable Iron Works
 Bridgeport Safety Emery Wheel Co.,
 Inc.
 Bridgeport Steel Treating Co.
 Bullard Machine Tool Co.
 Canfield Rubber Co.
 Connecticut Metal Treating, 07
 Knowlton Ave.
 Delcampe Welding Co.
 Diamond State Fibre Co.
 McNab Company
 Palmer & Co., N.
 Rust Resisting Black Finish Co.
 Springfield Mfg. Co.
 Standard Mfg. Co.
Conn., Bristol
 Barnes, Wallace Co., 118 Wallace Ave
 Dunbar Bros. Co., 76 South St.
 New Departure Mfg. Co.
 Root Co., C. J., 150 Bridge St.
Conn., Chester
 Bates & Sons Co., C. J.
Conn., Collinsville
 Collins Company
Conn., Danbury
 Ball & Roller Bearing Co., Maple Ave.
Conn., Deep River
 Rogers Brush Works
Conn., Derby
 Birmingham Iron Foundry
 Dairy Machinery & Construction Co.
Conn., East Hampton
 Hill Brass Co., N. N.
Conn., East River
 Weld, Geo. M.
Conn., Georgetown
 Gilbert & Bennett
Conn., Groton
 New London Ship & Engine Co.
 Hartford Covering Co., 1234 Main St.
 Jewell Belting Co.
 Johns-Pratt Co., 555 Capitol St.
 Ney & Co., J. M.
 Organ Power Co.
 Pratt & Cady Co., Inc.
 Roto Company
 Sterling Blower Co.
 Terry Steam Turbine Company, The
 Veeder Mfg. Co.
Conn., Hartford
 Abbott Ball Co.
 Automatic Refrigerating Co.
 Baker Electric Co.
 Connecticut Blower Co., Inc.
 Ney Co., J. M.
 Pratt & Cady Co.
 Spencer Turbine Co.
 Terry Steam Turbine Co.
 Whitlock Coil Pipe Co.
Conn., Meriden
 Bradley & Hubbard Mfg. Co
 International Silver Co.
 Miller & Co., Edward
 Parker, Chas. C.
Conn., Middletown
 New England Enameling Co.
 Palmer Co., E. I.
 Wilcox Crittenden Co., Inc.
Conn., Montville
 Robertson Co., C. M.
Conn., New Britain
 Hart & Cooley Co.
 Landers, Frary & Clark
 North & Judd Mfg. Co.
 Stanley Rule & Level Co.
 Vulcan Iron Works
Conn., New Haven
 Acme Wire Co.
 American Steel & Wire Co
 Bauman Rubber Co.
 Best Mfg. Co
 Bigelow Co., 76 River St.
 Coe & Brown
 Eastern Machinery Co.
 Marlin Arms Corp.
 Griswold Machine Co., Geo. M.
 National Pipe Bending Co., The, River
 and Lloyd Sts
 Oven Equipment & Mfg. Co.
 Oxy-Carbi Co.
 Peck Bros. & Co., The
 United Smelting & Aluminum Co.
Conn., New London
 New England Collapsible Tube Co.
 Whiton Machine Co., D. E.
Conn., Norwich
 Norwich Belt Mfg. Co.
 Thames Cork Co.
Conn., Seymour
 Seymour Mfg. Co.
Conn., Shelton
 Clark Cast Steel Cement Co.
Conn., South Norwalk
 Nash Engineering Co.

- Conn., Southport*
O'Neill Wire Works, Joseph
- Conn., Stamford*
Celluloid Zapon Co.
Stamford Gas Stove Co.
- *Conn., Tolland*
Sumner Belting Co., William
- Conn., Torrington*
Turner & Seymour Mfg. Co.
- Conn., Unionville*
House & Sons
- Conn., Wallingford*
Wallace & Sons Mfg. Co., R.
- Conn., Waterbury*
American Brass Co., The
American Metal Hose Co.
Apothecaries Hall Co.
Bristol Co.
Chase Rolling Mill Co.
Kenworthy, Chas. F.
Novelty Mfg. Co.
Randolph-Clowes Co., The
Seoville Mfg. Co.
Waterbury Brass Goods Corp.
Waterbury Clock Co.
Waterbury Mfg. Co.
- Conn., Windsor Locks*
Anchor Paper Co., Inc.
- Conn., Westport*
Dodge Co., C. B.
- Del., Newark*
Continental Fibre Co.
- Del., South Wilmington*
Hilles & Jones Co.
- Del., Wilmington*
American Vulcanized Fibre Co., Equitable Bldg.
Atlas Powder Co.
Betts Machine Co.
Delaware Hard Fibre Co.
Du Pont De Nemours and Co., E. I.
Du Pont Fabrikoid Co.
Electric Hose & Rubber Co.
Harlan & Hollingsworth Corp.
Hercules Powder Co.
Jessup & Moore Paper Co.
Pusey & Jones Co.
Remington Machine Company
Slocomb & Co., Inc., F. F.
Walker & Elliott, Inc.
- England Birmingham*
Belchers (Standley) & Mason, Ltd., Church St.
- England, Deepfields, nr. Bilston Staffs*
Cannon Iron Foundries, Ltd.
- England, Staningley, near Leeds*
Leeds & Bradford Boiler Co., Ltd., The
- England, Widnes*
Widnes Foundry Co., Ltd., The
- Ga., Atlanta*
Atlanta Utility Works
Austin Co., W. E.
- Hood Brick Co., B. Mifflin, Chandler Bldg.
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.
- Ga., Columbus*
Columbus Iron Works Co.
- Ga., La Grange*
Unity Cotton Mills
- Ga., Macon*
Bibb Mfg. Co.
- Ga., Newman*
Cole Mfg. Co., R. D.
- Ga., Rome*
Davis Foundry & Machine Works
Rome Scale & Mfg. Co.
- Ga., Savannah*
Crescent City Blow Pipe Co.
Savannah Blow Pipe & Exhaust Co.
- Ill., Alton*
Illinois Bottle Company
Illinois Glass Co.
Illinois Stoker Co.
- Ill., Aurora*
American Well Works
Barber-Greene Co.
Lyon Metallic Mfg. Co.
Stephens-Adamson Mfg. Co.
Western Wheeler Scraper Co.
- Ill., Batavia*
Allbright-Nell Co., 5225 Southwestern Blvd.
Challenge Co.
Sperry & Co., D. R.
U. S. Wind Eng. & Pump Co., 30 Water St.
- Ill., Bradley*
Bradley Machine Works
- Ill., Calumet*
Calumet Steel Co.
- Ill., Chicago*
Accurate Engineering Co.
Acme Water Still Co., 180 N. Dearborn St.
Adams & Westlake Co., Ontario and Franklin Sts.
Aetna Powder Co., 7 S. Dearborn St.
Albaugh-Dover Co., 2100 Marshall Bldg.
Allbright-Nell Co., 4023 Westworth St.
American Arch Co., McCormick Bldg.
American Can Co., 104 S. Michigan Ave.
American Conveyor Co., 6611 Drexel Ave.
American Cutlery Co., 193 Mather St.
American Indicator Paper Co., 2547 Eastwood Ave.
American Magnesia Products Co., 609 W. Austin Ave.
American Manganese Steel Co., McCormick Bldg.
American Radiator Co.

- American Seating Co., 14 E. Jackson St.
 American Spiral Pipe Works, 14th St. and S. Cicero Ave.
 American Steel & Wire Co.
 American Steel Foundries, McCormick Bldg.
 American Tag Co., State and 61st St.
 American Wire Fabrics Co.
 Andresen-Evans Co., 646 Railway Exchange Bldg.
 Andrews Co., A. H., 117 S. Wabash Ave.
 Austin Mfg. Co., 910 S. Michigan Ave.
 Automatic File Co., 108 N. Dearborn St.
 Badt & Co., F. B., 6506 Lafayette Ave.
 Benjamin Electric Mfg. Co., 120 S. Sangamon St.
 Bennett O'Connell Co., 3600 S. Morgan St.
 Bieder Co., 334 S. Clinton St.
 Bleadon Dunn Co., 208 N. 5th Ave.
 Block Chemical Laboratories, 208 S. La Salle St.
 Booth Felt Co., Inc., 116 S. 5th Ave.
 Brown Portable Conveying Machinery Co., 10 S. LaSalle St.
 Brown Portable Elevator Co.
 Burdett Mfg. Co., St. Johns Ct. and Fulton St.
 Burke & James, Inc., 240 E. Ontario St.
 Caldwell & Son Co., H. W., 17th St. and Western Ave.
 Calumet Steel Co., 208 S. La Salle St.
 Carpenter & Co., Geo. B., 436 Wells St.
 Cassady-Fairbanks Mfg. Co., 6126 La Salle Ave.
 Central Locomotive & Car Works, 345 S. Dearborn St.
 *Central Scientific Co., 460 E. Ohio St.
 Central Steel & Wire Co., 1119 N. Peoria St.
 Chalmers & Williams, Inc.
 Channon Co., H., Market and Randolph St.
 Chicago Belting Co., 113-125 Green St.
 Chicago Bridge & Iron Works, 105th and Throop Sts.
 Chicago Eye Shield Co., 2300 Warren Ave.
 Chicago Fire Brick Co., 133 W. Washington St.
 Chicago Flexible Shaft Co., 608 N. La Salle Ave.
 Chicago Glass Products Co., 2300 Warren Ave.
 Chicago Pneumatic Tool Co., Fisher Bldg.
 Chicago Pump Co., 904-10 W. Lake St.
 Chicago Retort & Fire Brick Co., 204 S. La Salle St.
 Chicago Steel Car Co., 156th and Halstead Aves.
 Chicago Steel Foundry Co.
 Chicago Surgical & Electrical Co., 314 W. Superior St.
 Chicago Tubing & Braiding Co., 216 N. Clinton St.
 Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.
 Chicago Wire Chair Co., 618 N. La Salle St.
 Clark Dust Collecting Co., 1116 Fisher Bldg.
 Combustion Appliance Co., 1778 Estes Ave.
 Commercial Corundum & Emery Wheel Co., 920-22 W. Ohio St.
 Crane Company, 836 S. Michigan Ave.
 Creamery Package Mfg. Co., 61 W. Kinzie St.
 Cyclone Blow Pipe Co., 2552 W. 31st St.
 Cyclone Blow Pipe Co., 1001 W. 21st St.
 *Daigger & Co., A., 52-56 W. Kinzie St.
 Deegan Supply Co., 116-122 W. Illinois St.
 Dietzgen Co., Eugene, 166 W. Monroe St.
 Drying Systems, Inc., 320 N. Michigan Ave.
 Dull Co., Raymond W., 111 W. Washington St.
 Durand Steel Locker Co., 76 W. Monroe St.
 Dwight Mfg. Co., 12-14 Jefferson St.
 Eagle-Picher Lead Co., 208 S. La Salle St.
 Eagle Tank Co., 2426 N. Crawford Co.
 Economy Engineering Co., 415 S. Wasthenaw Ave.
 Economy Pumping Machinery Co., 120-126 N. Curtis St.
 Electric Magneto Tool Co., 2902 Canoll Ave.
 Ellison, Lewis M., 214 W. Kinzie St.
 *Elmer, H. N., 53 W. Jackson Blvd.
 Elmes Engineering Works, Chas. F., 215 N. Morgan St.
 Fairbanks, Morse & Co., 902 S. Wabash Ave.
 Federal Brass Works, 3100 S. Kinzie St.
 Federal Sign System, Lake and Desplaines Ave.
 Flexible Steel Lacing Co., 522 S. Clinton St.
 Foundation Co., Rookery Bldg.
 Gaertner & Co., Wm., 5345 Lake Park Ave.

- Garden City Fan Co., McCormick Bldg.
 Gerts, Lombard & Co., 221 W. Randolph St.
 Goodman Mfg. Co., Halstead St. and 48th Pl.
 Great Western Smelting & Refining Co.
 Griffin Wheel Co., 332 S. Michigan Ave.
 Guillot Metal Gasket & Supply Co., 24 S. Clinton St.
 Guertner Co., Wm.
 Halsted Co., Jos., 1233 W. Randolph St.
 Harrington & King Perforating Co., 640 N. Union Ave.
 Harvard Electric Co., 525 W. Van Buren St.
 Hooker Co., H. M., 651 Washington Place
 Humboldt Mfg. Co., 2014 Nebraska Ave.
 Ilg Electric Ventilating Co., 131 Whiting St.
 Illinois Engineering Co., Racine Ave. and 21st St.
 Illinois Malleable Iron Co., 1801 Diversey Blvd.
 Illinois Smelting & Refining Co., 410 N. Peoria St.
 Illinois Steel Co., 208 S. La Salle St.
 Imperial Brass Mfg. Co., 524 S. Racine Ave.
 Independent Pneumatic Tool Co., 1307 Michigan Ave.
 Inland Steel Co., 1st Nat'l. Bank Bldg.
 International Filter Co., 1702 S. Wabash Ave.
 International Harvester Co., 608 S. Michigan Ave.
 Invincible Blow Pipe Co., 2527 Homer St.
 Johnson Engineering Works, 1734 First Nat'l. Bank Bldg.
 Jones Foundry & Machine Co., W. A., 4404 W. 12th St.
 Justrite Mfg. Co., 2061 Southport Ave.
 Kaestner & Hecht Co., Inc., Harrison and Throop St.
 Kelso & Co., 557 W. Quincy St.
 Kimble-Durand Glass Co., 402 W. Randolph St.
 *Laboratory Materials Co., 640 E. 71st St.
 Lammert & Mann Company, Wood and Walnut Sts.
 Lehon Co., W., 45th & Oakley Ave.
 Leonard Peterson & Co., 1234-1248 Fullerton Ave.
 Life Savings Devices Co., 564 W. Monroe St.
 •Link-Belt Co., W., W. 39th St. and Stewart Ave.
 Liquid Carbonic Co., 31st St. & Kenzie Ave.
 Magnus Sons Co., A., 327 W. Randolph St.
 Maloney Belting Co., 130 N. Franklin St.
 McCauley Belting Co., 212-220 Orleans St.
 McDonnell Odometer Co., 35th St. and Kenzie Ave.
 McGuire-Cummings Mfg. Co., 111 W. Monroe St.
 Mechanical Rubber Co., 307 W. Randolph St.
 Metal Specialties Mfg. Co., 736 W. Monroe St.
 Meyer Co., Wm., 825 W. Washington St.
 Mohr & Son, John, 349-359 W. Illinois St.
 Mojonnier Bros. Co., 833 W. Jackson Blvd.
 Moore & Lorenz Co., 2144-52 Fulton St.
 Morgan-Gardner Electric Co., 2622 S. Nields Ave.
 Mott Sand Blast Co., 26 S. Clinton St.
 Murphy Metals Co., 1248 Webster Bldg.
 National Boiler Washing Co., 531 Railway Exchange Bldg.
 National Dump Cart Co., 80 E. Jackson Blvd.
 National Electric Controller Co., 154 Whiting St.
 National Enameling & Stamping Co.
 National Hose Coupling Co., People's Gas Bldg.
 National Regulator Co., 208 S. Jefferson St.
 National Rheostat, The, 154 Whiting St.
 National Supply Co., 416 W. Grand Ave.
 National X-Ray Reflector Co., Jackson Blvd. and Franklin St.
 Nugent & Co., Wm. W., 146-148 W. Superior St.
 Orton-Steinbrenner Co., 608 S. Dearborn St.
 Olmstead, W. A. Scientific Co.
 Overbaugh & Ayres Mfg. Co., 411 S. Clinton St.
 Oxwold Acetylene Co., 36th and Jasper St.
 Pease Co., C. F., 213-231 Institute Pl.
 Peerless Ice Machine Co.
 Perrin & Co., Wm. R., Old Colony Bldg.
 Peterson & Co., Leonard, 1240 Fullerton Ave.

- Phoenix-Hermetie Co., 2444 W. 16th St.
 *Physicians Laboratory Supply Co., 1234 Marshall Field Annex Bldg.
 Pioneer Cooperage Co., 440-446 N. Hoyne St.
 Pliable Fire Brick Co., 133 W. Washington St.
 Power Engineering Co., Railway Exchange
 Power Plant & Specialty Co., 1306 Monadnock Bldg
 Powers Regulator Co., 5 S. Wabash Ave.
 Pullman Co., Pullman Bldg.
 Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.
 Raymond Lead Co., S. Huron St.
 Redfield, Robert S., 327 S. La Salle St.
 Redlich Mfg. Co., 637 W. Oak St.
 Redmanol Chemical Products Co., 636 W. 22d St.
 Republic Flow Meters Co., 565 Washington Blvd.
 Rhodes & Co., James H., 153-159 W. Austin Ave
 Revell & Co., A. H., Wabash Ave.
 Ryerson & Son, Joseph T.
 Sackett Screen & Chute Co., 1681 Elston Ave.
 Salisbury & Co., W. H., 105-07 S. Wabash Ave.
 Sanford Mfg. Co., Congress and Peoria Sts.
 Sargent & Co., E. H., 155-165 L. Superior St.
 Sargeant Steam Meter Co., 2835 Armistage Ave.
 Schaar & Co., 1025 S. State St.
 Scheidel-Western X-Ray Coil Co., 737 W. Van Buren St.
 Schuler Co., J. F., 2428 N. Ashland Ave.
 Schultz & Son, A. L., 1675 Elston Ave.
 Scully Steel & Iron Co., 24th and Ashland Ave.
 Self Cleaning Strainer Co., 6329 Stewart Ave.
 Simonds & Co., G. L., 230 S. La Salle St.
 Skillin & Richards Mfg. Co., 4520 Cortland St.
 Sprague Canning Machinery Co., 220 224 N. Watson St.
 Standard Asphalt & Refining Co., 208 S. LaSalle St
 Standard Asphalt & Rubber Co., 137 S. La Salle St.
 Standard Diamond Drill Co., First Nat'l. Bank Bldg.
 Standard Screen Co., 79-85 Madison Ave., E.
 Star Brass Works, The, 3114-22 Carroll Ave.
 Stewart Warner Speedometer Co., 1822 Diversey Blvd.
 *Stoelting Co., C. H., 3037 Carroll Ave.
 Streeter-Amet Weighting & Recording Co., 4101 Ravenswood Ave.
 Stroud & Co., E. H., 928-34 Fullerton Ave.
 Sturgis & Burn Mfg. Co., 508 S. Green St.
 Sullivan Machinery Co., 122 S. Michigan Ave.
 Swenson Evaporator Co., 945 Monadnock Bldg.
 Tablet & Ticket Co., 628 W. Adams St.
 Thordarson Electric Co., 501 S. Jefferson St.
 Toledo Steel Barrel Co., 134 La Salle St
 Troy Laundry Machinery Co., 23d and La Salle Sts.
 Unger, John S., 3344 Broadway
 U. S. Bottlers Machinery Co., 2511 Park Ave.
 U. S. Blow Pipe & Dust Collecting Co., 2090 Canalport Ave.
 U. S. Gypsum Co., 205 W. Monroe St.
 U. S. Rocking Gate Bar Co., 20 W. Jackson St.
 U. S. Silica Co., 419 People's Gas Bldg.
 Universal Engineering Co., 700 W. 22d St.
 Valhalla Co., Valhalla Bldg.
 Victor Electric Corporation, 236 S. Robey St.
 Vitrolite Co., 133 W. Washington St
 Vortex Blow Pipe Co., 151 W. 63d St.
 Vulcan Fuel Economy Co., 230 S. La Salle St.
 Wagner, Carl H., 1944 N. Albany Ave.
 Weber Chimney Co., 332 S. Michigan Ave.
 Weller Mfg. Co., 1820 N. Kostner Ave.
 Western Steel Car & Foundry Co., 37 W. Van Buren St.
 Wednagel & Co., W., 22d and Jefferson Ave., S.
 Welch Mfg. Co., W. M., 1516 Orleans St.
 Weller Mfg. Co., 1820-1856 Kostner Ave.
 Wendnagel & Co., 22d and Jefferson St.
 Western Bottle Mfg. Co., 402 W. Randolph St.
 Western Electric Co., 500 S. Clinton Ave.
 Western Reflector Co., 1015 W. Lake Ave.
 Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

- Wilson & Bennett Mfg. Co., 65th Pl.
 and 58th Ave.
 Wilson & Co., T. Cortez, 333 W. Lake
 St.
 Wolf Company, Fred W., 827 Rees St.
 • Yeomans Bros. Co., 231 Institute Pl.
Ill., Chicago Heights
 Canedy-Otto Mfg. Co.
 Chalmers & Williams, Inc.
 Thermalene Co., 17th St. & Lowe
 Ave.
 Weber-Costello Co., Weber Heights
Ill., Danville
 Headley Glass Works
Ill., Decatur
 Mueller Mfg. Co., H.
 Union Iron Works
Ill., Du Quoin
 Blakeslee Mfg. Co.
Ill., East Moline
 Standard Calorimeter Co.
Ill., East St. Louis
 American Carbon & Battery Co.
Ill., Elgin
 National Boiler Specialties Co.
Ill., Galesburg
 Frost Mfg. Company
 Metal Barrel Co.
Ill., Harvey
 Whiting Foundry Equipment Co.
Ill., Joliet
 Humphrey & Son
Ill., Kewanee
 Kewanee Boiler Company
Ill., Moline
 Barnard & Seas Mfg. Co.
 Williams, White & Co.
Ill., Monmouth
 Western Stoneware Co.
Ill., North Chicago
 Davis-Watkins Milk Machinery Co.
Ill., Peoria
 Stuber & Kuck
Ill., Quincy
 Cabinet Mfg. Co., 323-25 Main St.
 Gardner Governor Co.
 Knittell Show Case Co., J.
Ill., Rockford
 Eclipse Fuel Engineering Co.
 Ingersoll Milling Machine Co.
 Rockford Belting Co.
Ill., Rock Island
 Rock Island Plow Co.
 Trio Mfg. Co.
Ill., Springfield
 Springfield Boiler & Mfg. Co.
Ill., Streator
 Western Glass Co.
Ill., Sycamore
 Turner Brass Works
Ill., White Hall
 Ruckel & Son, A. D.
Ind., Alexandria
 Lippincott Glass Co.
Ind., Anderson
 Anderson Foundry & Machine Works
 Buckeye Mfg. Co.
 Dice Machine Co.
Ind., Aurora
 Stedmans Foundry & Machine Works
Ind., Brazil
 Crawford & McCrimmon Co.
Ind., Columbus
 Mooney & Sons, W. W.
Ind., Connersville
 Connersville Blower Works
 Roots Co., P. H. & F. M.
Ind., East Chicago
 Graver Tank Works, Wm.
 Green Engineering Co.
Ind., Elkhart
 Griffin Engineering & Construction Co.
Ind., Evansville
 Uhl Pottery Co.
Ind., Ft. Wayne
 Bass Foundry & Machinery Co.
 Bowser & Co., S. F.
 Good Roads Machinery Co.
 Wayne Oil Tank & Pump Co.
 Western Gas Construction Co.
Ind., Goshen
 I. X. L. Furniture Co.
Ind., Hammond
 Betz & Co., Frank S.
 McIlroy Belting & Hose Co.
Ind., Indianapolis
 American Highspeed Chain Co., 401 S.
 Illinois Ave.
 Atkins & Co., E. C., 402 S. Illinois St.
 Castle Refrigerating Machine Co.
 Climax Machinery Co., 143 E. Morris
 St.
 Clune Co., M.
 Fairmount Glass Works
 Galloway Co., Wm.
 Hunter Dry Kiln Co., The, 26th and
 Cornell Ave.
 Indiana Fan Co., 40 E. South St.
 Keyless Lock Co., 1401 Newman St.
 Lyons Atlas Co.
 Marietta Glass Co.
 Marietta Mfg. Co.
 National Malleable Castings Co.
 Nordyke & Marmon Co., 1290 Ken-
 tucky Ave.
 Ott Grinder Co., 217-223 W. Tenth St.
 Presto-O-Lite Co., Inc.
 Schwartz Sectional System, 312-316 S.
 New Jersey St.
Ind., Jonsboro
 Indiana Rubber & Insulated Wire Co.
Ind., Kendallville
 Baker & Sons, J. R.

- Ind., Kokomo*
Kokomo Foundry & Machine Co.
- Ind., La Porte*
Advance-Rumeley Co.
- Ind., Marion*
Marion Machine Foundry & Supply Co.
- Ind., Michigan City*
Haskell & Barker Car Co.
- Ind., Mishawaka*
Dodge Sales & Engineering Co.
- Ind., Muncie*
Endurance Auto Co.
- Ind., South Bend*
Campbell Wire Specialty Works
Cover, H. S., P. O. Box 404
South Bend Chilled Plow Works
Studebaker Corp.
- Ind., Terre Haute*
O'Neill Bottle Machine Co.
Turner Bros. Co.
- Ia., Bettendorf*
Bettendorf Co.
- Ia., Burlington*
Murray Iron Works Co.
- Ia., Cedar Rapids*
Cherry Co., J. G.
Johnson Gas Appliance Co.
- Ia., Davenport*
Davenport Locomotive Works
Grupe Drier & Boiler Co., 325-331 E. 2d St.
Scott, C. U., Wall St.
- Ia., Decorah*
Standard Seed Tester Co.
- Ia., Des Moines*
Des Moines Bridge & Iron Works
Dodd & Struthers
- Ia., Dubuque*
Cleveland Mining Co.
McDonald Mfg. Co., A. Y.
Morrison Bros.
- Ia., Iowa Falls*
Gade Bros. Mfg. Co.
- Ia., Marshalltown*
Fisher Governor Co.
Dunham Company, C. A.
- Ia., Ottumwa*
Ottumwa Iron Works
Ottumwa-Moline Engine & Pump Co., 802-22 Madison Ave.
- Ia., Waterloo*
Waterloo Gasoline Engine Co.
- Kan., Iola*
United Iron Works Co.
- Kan., Topeka*
Steel Fixture Mfg. Co.
- Ky., Ashland*
Ashland Fire Brick Co.
- Ky., Louisville*
Ahrens & Ott Mfg. Co., 325 W. Main St.
- American Elevator & Machine Co., 509 E. Main St.
- Caldwell Co., A. E., Brook and D. Sts.
- Cowan & Co., Andrew, 435 W. Main St.
- Louisville Cooperage Co.
- Louisville Pottery Co., Floyd and Bloom Sts.
- National Fdy. & Machine Co., 140 W. Main St.
- Vogt Machine Co.
- Ky., Covington*
Kelly-Koett Mfg. Co., The
- Ky., Paducah*
Paducah Pottery Co.
- La., New Orleans*
Haubtman & Loeb Co., 1717 Magazine St.
Joubert & Goslin Machine & Foundry Co.
Lockett & Co., Ltd., A. M.
Mente & Co.
Murphy, Jno. H., 643 Magazine St.
Murphy Iron Works, 643 Magazine St.
National Blow Pipe & Mfg. Co., Ltd.
New Orleans Copper Works
Payne & Joubert, 2304 Euphrosine St.
- La., Shreveport*
Shreveport Blow Pipe & Sheet Iron Works
Whittle Blow Pipe Co.
- Me., Auburn*
Ideal Desk Co.
- Me., Bangor*
Eastern Mfg. Co.
Orono Pulp & Paper Co.
Union Iron Works
- Me., Bath*
Bath Iron Works, Ltd.
- Me., Portland*
Burgess Sulphite Fibre Co., 440 Commercial St.
Electron Chemical Co., 534 Congress St.
- Md., Baltimore*
American Compressor & Pump Co., 801-805 E. Pratt St.
Baker Bros. & Co., 118 South St.
Baltimore Cooperage Co., The, 1223 Leadenhall St.
Baltimore Copper Smelting & Rolling Co., 4th Ave. and 6th St.
Baltimore Electric Blue Print Co., 10 E. Lexington St.
Baltimore Tube Co., Wicomico and Ostend Sts.
Bartlett-Hayward Co., Scott and McHenry Sts.
Bates Elevator Co., 211 Preston St.
Black & Decker Mfg. Co., 105-15 S. Calvert St.
Bloede Co., Victor G., Caton Ave.

- Bloomsburg & Co., H., 425 N. Carey St.
 Caroline Foundry Co., 723 S. Caroline St.
 Carr-Lowery Glass Co., Westport
 Chesapeake Belting Co., 813 Homewood Ave.
 Chesapeake Glass Co., 424 W. Conway St.
 Codd Company, E. J., 700-708 S. Caroline St.
 Crown Cork & Seal Co., Guilford Ave.
 Dixie Mfg. Co., Inc., Russell St. and B. & O. R. R.
 Druid Oak Belting Co., 111 E. Lombard St.
 Gandy Belting Co., 726 W. Pratt St.
 Hess Steel Corp., Biddle St. and Loney's Lane
 Hull Mfg. Co., J. S., 126 E. Falls Ave.
 Maryland Brass Metal Works, Guilford and Girard Aves.
 *Meade & Co., Richard K., 608-612 Law Bldg.
 Milburn Co., Alex., 1420-26 W. Baltimore St.
 Miller Safe Co., Fremont Ave. and Briscoe St.
 Monarch Engineering & Mfg. Co., American Bldg.
 Mt. Vernon Belting Co., 327 Warren Ave.
 Mt. Vernon-Woodberry Mills, Inc., Continental Bldg.
 Poole Engineering & Machine Co., Woodberry
 Porcelain Enamel & Mfg. Co., O'Donnell and 8th Sts.
 Sackett, A. J., 4th Ave. and First Sts.
 Southern Can Company, 717 S. Wolfe St.
 Swindell Bros., Bayard and Russell Sts.
 Thirlkel*Can Co., 1109 E. Pratt St.
Md., Cumberland
 Cumberland Glass Tube Co.
Md., Hagerstown
 Mack Brush Co., E.
 Pangborn Corp.
Md., Woodlawn
 Powhatan Mining Co.
Mass., Adams
 Allen Iron Works
Mass., Andover
 Tyler Rubber Co.
Mass., Ashburnham
 Among Mfg. Co., T. R.
Mass., Ashland
 Lombard Governor Co.
Mass., Athol
 Starrett Co., L. S.
 Union Twist Drill Co.
- Mass., Boston*
 Adams Co., J. J., 700 Harrison Ave.
 Allen Co., E. H., 41 Beverly St.
 American Felt Co., 103 Bedford St.
 American Glue Co., 121 Beverly St.
 American Incandescent Heat Co., Inc., 10 Post Office Square
 American Soda Fountain Co., 282 Congress St.
 American Steam Gauge & Valve Mfg. Co., 208 Camden St.
 American Tool & Machine Co., 10 High St.
 American Water Supply Co., 251 Causeway St.
 Ames Plow Co., Quincy Hall
 Anderson Mfg. Co., Albert & J. M., 289 A St.
 Ashton Valve Co., 271 Franklin St.
 Badger & Sons Co., E. B., 63-75 Pitts St.
 Badger Fire Extinguisher Co., Inc. 34 Portland St.
 Bailey Meter Co., 141 Milk St.
 Barney Ventilating Fan Works, 62 High St.
 Bay State Belting Co., 605 Atlantic Ave.
 Becker Milling Machine Co., Hyde Park
 Berry, Geo. F., 152 Purchase St.
 Boston Belting Corporation, 110 Summer St.
 Boston Mirror Co., 67 Sudbury St.
 Boston Steam Specialty Co., 185 Franklin St.
 Bradley Pulverizer Co., 92 State St.
 Callahan Co., C., 127 Purchase St.
 Clafin Co., C. A., 161 High St.
 Clark Co., A. B., 107 South St.
 Clinton Wire Cloth Co., Sears Bldg.
 Codman & Shurtleff, 15 Elkins St.
 Cork Insert Co., 164 Federal St.
 Crosby Steam Gauge & Valve Co., 40 Central St.
 Downing Grease Co., 16 Waltham St.
 Eastern Clay Goods Co., 141 Milk St.
 Julian d'Este Co., 26 Canal St.
 Electric Blower Co., 353 Atlantic Ave.
 Emerson Apparatus Co., 251 Causeway St.
 *Felters Co., 103 Bedford St.
 Fibre Finishing Co., 27 State St.
 Flintkote Mfg. Co., 88 Pearl St.
 General Welding & Equipment Co., 107 Massachusetts Ave.
 Gleeson, Thomas W., 106 Sudbury St.
 Globe Optical Co., 403 Washington Ave.
 Globe Rubber Works, 45 High St.
 Gurney Heater Mfg. Co., 200 Franklin St.

- Hawthorne Pharmacy, Dudley and Washington Sts.
 Henderson, Geo., 9 Preston St.
 Holmes & Blanchard Co., 31 State St.
 Huff Electrostatic Separator Co., 60 India St.
 International Cotton Mills Corporation
 International Equipment Co., 353 Western Ave.
 Jacobs & Co., 258 Franklin St.
 *Knott Apparatus Co., L. E., Cambridge Station
 Knowlton Rubber Co., Geo. W., 60 Pearl St.
 Lamson Co., 100 Bolston St.
 Leigh & Butler, 232 Summer St.
 Library Bureau, 530 Atlantic Ave.
 Little Co., Inc., Arthur D., 93 Broad St.
 Lloys Co., A. J., 315 Washington St.
 Lummus Company, Walter E., 173 Milk St.
 Macalaster-Wiggin Co., 79 Sudbury Ave.
 Mahady Co., E. F., 671 Boylston St.
 Mason Regulator Co., 127 Federal St.
 McCallan Co., 11 McCallen St.
 McGann & Sons Co., T. F., 114 Portland St.
 McLauthlin Co., Geo. T., 120 Fulton St.
 McNamara, M., 171 Broadway
 Meisel Press Mfg. Co., 950 Dorchester Ave.
 Morse & Son, Inc., Andrew J., 221 High St.
 National Can Co., 36 Washington St., N.
 National Separator & Machine Co., 89 State St.
 Nelson Blower & Furnace Co., 11 Elkins St.
 New Can Co., 326 A St.
 New England Chocolate Machinery Co.
 New England Tank & Tower Co.
 Nightingale & Childs Co., 205 Congress St.
 Orient Spray Co., 98 Dudley St.
 *Parks-Cramer Co.
 Paul Mfg. Co., 14 Blackstone St.
 Plouff Company, 1558 River St., Hyde Park
 Randall, Faichney & Co.
 Revere Rubber Co.
 Rihac Disinfectant Co., 11 Hawkins St.
 Riley Co., C. E., 65 Franklin St.
 Rowe, L. L., 74 Portland St.
 Shackley & Son Co., W. T., 49 High St.
 Speares, Alden Sons Co.
 Spray Engineering Co., 93 Federal St.
 Standard Thermometer Co., 65 Shirley St.
 Star Brass Mfg. Co., 103 E. Dedham St.
 Strater & Sons, Herman, 74 Sudburn Ave.
 Sturtevant Co., B. F., Hyde Park
 Sturtevant Mill Co., Harrison Square
 Tileston & Hollingsworth Co., 49 Federal St.
 United Lined Tube & Valve Co.
 Van Noorden & Co., E., 100 Magazine St.
 Wadsworth, Howland & Co., 84 Washington St.
 Walworth Mfg. Co., 142 High St.
 Ward's Sons, Edgar T., 23 Purchase St.
 Warren Brothers Company, 142 Berkeley St.
 Waterhouse Welding Co.
 John L. Whiting - J. J. Adams Co., 690 Harrison Ave.
 White & Co., C. W., 99 Court St.
 White & Son, W. B., 71 Summer St.
 Wheeler Reflector Co., 156 Pearl St.
Mass., Brighton
 International Equipment Co., 352 Western Ave.
Mass., Brookline
 Ritchie & Sons, Edward S.
 Holtzer-Cabot Electric Co.
Mass., Cambridge
 Ashland Emery & Corundum Co.
 Boston Woven Hose & Rubber Co.
 Exlon Co., The, 156 6th St.
 Guernsey Earthenware Co.
 *International Instrument Co.
 Little Co. Inc. Arthur D.
 McElroy Co., P. J.
 Moss & Whyte Co., Sidney and Pilgrim Sts.
 Riverside Boiler Works, Inc., 491 Main St.
 Simplex Tester Co., Harvard Square
 Standard Dairy Co.
Mass., Chelsea
 Revere Rubber Co.
Mass., Clinton
 Clinton Wire Cloth Co.
Mass., Chicopee Falls
 National Scale Co.
Mass., East Boston
 Mead-Morrison Co.
Mass., East Walpole
 Bird & Son
Mass., Fall River
 Scott & Co., Ernest, Box 259
 Union Belt Co.
Mass., Fitchburg
 Brown Bag Filling Machine Co.
 Parks Co., G. M.

- Mass., Florence**
Norwood Engineering Co.
- Mass., Foxboro**
Bristol Co., Inc.
Foxboro Co., Inc.
- Mass., Framingham**
Dennison Mfg. Co.
International Engineering Works, Inc.
Waverly St.
Manufacturing Equipment & Engraving Co.
- Mason & Co., Marcus**
- Mass., Gloucester**
Perkins Box Co.
- Mass., Greenfield**
Greenfield Tape & Die Corporation
Noyes & Co., B. B.
- Mass., Holyoke**
Holyoke Belting Co.
Holyoke Machine Co.
Perkins & Son, Inc., B. F.
- Mass., Hopedale**
Draper & Co.
- Mass., Hudson**
Universal Boring Machine Co., 30 Tower St.
- Mass., Hyde Park**
Plouff Co., 1558 River St
- Mass., Lawrence**
Norne & Sons Co., J. H.
- Mass., Lee**
Eaton-Dikeman Co.
- Mass., Lowell**
Turner Mfg. Co., J. S.
Whiting, Henry F., Shattuck St.
- Mass., Lynn**
Campbell Electric Co.
- Mass., New Bedford**
Morse Twist Drill & Machine Co.
- Mass., Northampton**
Clement Mfg. Co.
- Mass., Orange**
Chase Turbine Mfg. Co.
Hunt Machine Co., R.
Newt, Rodvey Machine Co.
- Mass., Peabody**
Turner Tanning Machinery Co.
- Mass., Pittsfield**
Jones & Sons Co., E. D., 25 Depot St.
- Mass., Shelburne Falls**
Lamson & Goodnow Mfg. Co.
- Mass., Somerville**
Union Glass Co.
- Mass., South Boston**
Condit Electrical Mfg. Co.
Hersey Mfg. Co.
- Mass., Southbridge**
American Optical Co.
- Mass., Springfield**
Gilber & Barker Mfg. Co.
Green Co., Samuel M.
Quigley Furnace & Foundry Co.
Witherbee Igniter Co.
- Mass., Taunton**
Bay State Crucible Co.
Lincoln-Williams Twist Drill Co.
New Process Twist Drill Co.
Taunton Crucible Co.
- Mass., Waltham**
Waltham Grinding Wheel Co.
Waltham Machine Works
Superior Corundum Wheel Co.
- Mass., Westfield**
Planet Co., 170 N. Elm St.
Smith Co., H. B.
Vitrified Wheel Co.
- Mass., West Newton**
American Electric Tool Co.
- Mass., Winchester**
Bacon Felt Co.
- Mass., Worcester**
Bay State Emery Wheel Co.
Coates Cliffin Mfg. Co.
Curtis & Marble Machine Co.
Forbes & Myers
Gratton & Knight Mfg. Co., Franklin St.
Hudson Belting Co.
National Mfg. Co.
Norton Co., New Bond St.
Ramsdell Specialty Co., 679 W. Boylston St.
Reed-Prentice Co.
Rice, Barton & Fales Machine & Iron Co.
Rockwood Sprinkler Co. of Mass., 34-56 Harlow St.
Sleeper & Hartley, Inc., 68 Prescott St.
Spencer Wire Co.
Standard Plunger Elevator Co., 243 Stafford St.
Union Water Meter Co., 41 Harmon St.
Warren Co., J. F. & W. H.
Worcester Pressed Steel Co.
Wright Wire Co., 69 Hammond St.
- Mich., Adrian**
Page Steel & Wire Co.
- Mich., Allegan**
Oliver & Co.
- Mich., Ann Arbor**
*Eberbach & Son Co.
- Mich., Battle Creek**
Advance Pump & Compressor Co.
American Mfg. Co.
American Steam Pump Co.
Keyes-Davis Co., Ltd.
Michigan Metal Products Co., 20th and M. C. R. R.
Taylor Steam Specialty Co.
Union Steam Pump Co.
- Mich., Bay City**
Bay City Foundry & Machine Co.
Bay City Iron Works
Garland Co., M.

- Industrial Works
MacKinnon Boiler & Machine Co.
Mich., Buchanan
Celfor Tool Co.
Mich., Detroit
Aeme Fancy Wire Works, Canfield Ave & Moran St.
American Blower Co., 1400 Russell Ave.
Briscoe Mfg. Co., 1443 Woodward Ave.
Central Station Steam Co., 710 E. Woodbridge St.
Clayton & Lambert Mfg. Co., 201 Piquette Ave., E.
Colton Co., Arthur, 782 E. Jefferson Ave.
Detroit Blowpipe Co., 551 Grand River Ave.
Detroit Brass Works
Detroit Copper & Brass Rolling Mills, 95 Clark Ave., P. O. Box 818
Detroit Dental Mfg. Co., 22 Milwaukee Ave.
Detroit Engine Co., 1250 Jefferson St.
Detroit Fuse & Mfg. Co., 1400-1414 Rivard St.
Detroit Grinding Wheel Co., Jefferson and Field Sts.
Detroit Heating & Lighting Co., 335 Wight St.
Detroit Leather Specialty Co., Inc.
Detroit Lubricator Co.
Detroit Oak Belting Co., 266 Wight St.
Detroit Range Boiler Co., 619 24th St.
Detroit Seamless Steel Tube Co., 541 Jefferson Ave., W.
Detroit Shipbuilding Co., Orleans St.
Detroit Steel Castings Co.
Detroit Steel Cooperage Co.
Detroit Tool Co.
Detroit Twist Drill Co., 634-46 Fort West
Detroit Wire Cloth Co., 504 Howard St.
Diamond Power Specialty Co.
Eckliff Automatic Boiler Circulator Co.
General Aluminum & Brass Castings Co., East Grand Blvd.
Hoskins Mfg. Co., 453-471 Lawton Ave.
Hygeia Filter Co.
Johnson Optical Co., 66 State St.
Kerr Machinery & Supply Co.
McCord Mfg. Co., 2587 E. Grand Blvd.
Mead & Co., 19th St and M. C. R. R.
Merz Capsule Co.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
Michigan Wire Cloth Co., 536 Howard St.
Moore & Son Co., E. C.
National Twist Drill & Tool Co.
Northern Engineering Works
Parke, Davis & Co.
Penberthy Injector Co.
Peninsular Emery Wheel Co., 253 Mel-drum Ave.
Precision Instrument Co., Fort and Wayne Sts.
Robert Instrument Co., 56 Shelby St.
Russell Wheel & Foundry Co.
Scientific Instrument Co., 134 E. Larned St.
Star Corundum Wheel Co., 241 Cavalry Ave.
Steere Engineering Co., Woodward Ave
Stevens Mfg. Co., Roe
Trippensee Mfg. Co., 2679 E. Grand Blvd.
Trums-Con. Laboratories, Caniff Road and G. T. R. R.
Trussed Concrete Steel Co.
U. S. Radiator Corporation
Welded Steel Barrel Corporation.
Zenner Disinfectant Co., 80 Lafayette St.
Mich., Grand Rapids
Clipper Belt Lacer Co., 974-1016 Front Ave., N. W.
Grand Rapids Brush Co.
Grand Rapids Chair Co.
Gunn Furniture Co.
Haney School Furniture Co.
Hart Mirror Plate Co.
Macey Co.
Phoenix Furniture Co.
Raniville Co., F., 241-243 Pearl St.
Sterling Desk Co.
Terrell's Equipment Co.
Wagemaker Co.
Mich., Holland
Novelty Wooden Shoe Co
Mich., Jackson
Knickerbocker Co.
Mich., Kalamazoo
Clarage Fan Co.
Kalamazoo Tank & Silo Co.
National Vaporizer Co.
Upjohn Co.
Mich., Lansing
*Apparatus & Specialty Co.
Lansing Co.
Michigan Screw Co.
Mich., Manistree
Manistree Iron Works Co.
Mich., Muskegon
Muskegon Boiler Works, Eighth St.
Shaw-Walker Co., The
Mich., Miles
Acme Belting Co.
National Standard Co.
Mich., Otsego
Bardeen Paper Co.

- Mich., Petoskey*
Blackmer Rotary Pump Co.
- Mich., Saginaw*
Allington & Curtis Mfg. Co.
Mitts & Merrill, 816 S. Franklin St.
Nickle, Frank H., 1321 N. Bond St.
U. S. Graphite Co.
Werner & Pfeiderer Co., Inc., 1260 N. Niagara St.
Wickes Boiler Co.
Wickes Bros., 512 Water St.
Willcox Engineering Co.
- Mich., Three Rivers*
Sheffield Car Co.
- Minn., Duluth*
Clyde Iron Works, 29th Ave. West of Michigan Ave.
Union Match Co.
- Minn., Mankats*
Little Giant Co., 198 Rock St.
- Minn., Minneapolis*
Decarie Incinerator Co.
Electric Machinery Co.
Mahr Manufacturing Co., 1300-1310 Quincy St.
McCord & Co., Horace M., 1013 Lumber Exchange
Mereen-Johnson Machine Co.
Minneapolis Heat Regulator Co., 2747 4th Ave., S.
Minneapolis Steel & Machinery Co.
Sikes Co., S. E.
Western Crucible Steel Castings Co.
Zenith Scientific Laboratories, 21 5th Ave., N. E.
- Minn., North St. Paul*
Minneapolis Manufacturing Association.
- Minn., Red Wing*
Red Wing Iron Works
- Minn., St. Paul*
American Hoist & Derrick Co.
Helwig Mfg. Co.
- Minn., West Duluth*
Carbic Mfg. Co.
- Minn., Winona*
Union Fibre Co.
- Mo., Kansas City*
Brown Bed Mfg. Co., 4300 12th St.
Columbian Steel Tank Co.
Excelsior Powder Co.
U. S. Portland Cement Co.
- Mo., Racine*
Seneca Tripoli Co.
- Mo., St. Joseph*
St. Joseph Pump & Mfg. Co.
- Mo., St. Louis*
Aloe Co., A. S., 510 Olive St.
Alvey Mfg. Co., 3201 S. Broadway
American Car & Foundry Co., 915 Olive St.
American Electric Machine & Elevator Co., 1706 N. 12th St.
- American Oleite Sales Co., 1404 N Park Pl.*
Arrow Boiler Compound Co., Commonwealth Trust Bldg.
Aufrechtig Copper & Iron Works, 900 S. Third St.
Barry-Wehmiller Machine Co., 6501 Florissant Ave.
Bayer Steam Soot Blower Co., 2828-40 La Salle St.
Bemis Bros. Bag Co., 600 S. 4th St.
Brecht Co., 1252 Cass Ave.
Certain-teed Products Corp., 314 N. Broadway
Columbia Can Co., Madison and 1st St.
Cook Cane Mill & Evaporator Co., 320 N. 2d St.
Cramer Dry Plate Co., G., Lemp and Shenandoah Aves.
Defender Automatic Regulator Co., 506 Oriel Bldg.
Dielectric Mfg. Co., 224 S. Vandeventer Ave.
Evans & Howard Fire Brick Co., 920 Market St.
Famous Filter Co., 301 N. Commercial St.
Flower Co., W. L., 310 S. 8th St.
Fulton Iron Works, 1257-61 Delaware Ave.
General Roofing & Mfg. Co.
Girtanner-Daviess Eng. & Contg. Co.
Gruendler Patent Crusher & Pulverizer Co., 928 N. 1st St.
Hammer Dry Plate Co., Ohio Ave. and Miami St.
Handlan-Buck Mfg. Co., 212 3d Ave.
*Heil Chemical Co., Henry, 210-214 S. 4th St.
Henderson-Willis Welding & Cutting Co., 2305-09 N. 11th St.
Hoyt Metal Co., 300 N. Broadway
Hydraulic Pressed Brick Co.
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
Lane & Co., J. H., 334 4th Ave.
Ludlow-Saylor Wire Co., Newstand Ave. and Wabash R. R.
Medart Mfg. Co., Fred, Dekalb and Potomac Sts.
Mississippi Glass Co.
Moore-Jones Brass & Metal Co., 3144 N. Broadway
Modern Engineering Co., 23d and Walnut Sts.
Nelson Mfg. Co., 10th and Chestnut Sts.
Porbeek Dust Arrester & Blow Pipe Co., 2017 N. Broadway
Reardon Glue Mfg. Co., 1532 N. Broadway
Ruemmel-Dawley Mfg. Co., 3900 Chouteau Ave.

- St. Louis Brass Mfg. Co., Jefferson and
 Washington Aves.
 St. Louis Car Co., 8000 N. Broadway
 St. Louis Cooperage Co.
 St. Louis Machine Tool Co., 2607 S.
 Broadway
 St. Louis Paper Can & Tube Co., 4400
 Union Blvd.
 *Simmons Hardware Co.
 Skinner Bros. Mfg. Co., 100 Tyler Ave.
 Walsh Fire Clay Products Co.
 Weber & Co., F., 825 Washington Ave.
 Wissler Instrument Co., 615 N. Broad-
 way
 Zellweger & Sons, John, 1900 Adelaide
 Ave.
- Mo., Springfield*
 Union Iron Works Co.
 United Iron Works
- Neb., Lincoln*
 Lee Broom & Duster Co.
- Neb., Omaha*
 Baker Ice Machine Co.
- N. H., Alton*
 Rockwell, Clough Co.
- N. H., Dover*
 Williams & Sons, I. B.
- N. H., Lakeport*
 Bickford & Co., H.
- N. H., Nashua*
 Proctor Bros. & Co., Marshall St
- N. J., Alden (Roselle P. O.)*
 Watson Stillman Co., The
- N. J., Ampere*
 Crocker, Wheeler Co.
- N. J., Arlington*
 Delaware Tin Corporation
 Lovell & Co., F. H.
- N. J., Asbury; Warren County*
 Asbury Graphite Mills
- N. J., Rawlinsville*
 Morris Machine Works
- N. J., Bayonne*
 Bayonne Bolt & Nut Co.
 Bayonne Castings Co.
 Bergen Point Iron Works, W. 5th St.
 Cox Engineering & Tube Bending
 Machine Works
 Duryea Mfg. Co.
 Standard Oil Co.
- N. J., Belleville*
 Bartlett Vacuum Jar Co.
 Hardman Tire & Rubber Co.
- N. J., Bloomfield*
 Condensite Co. of America
 Empire Cream Separator Co.
- N. J., Bridgeton*
 Cox & Sons Co.
 Cumberland Glass Mfg. Co.
- N. J., Burlington*
 Stuart & Peterson Co.
 U. S. Cast Iron Pipe & Foundry Co.
- N. J., Camden*
 Webster & Co., Warren, Point and
 Pearl Sts.
- N. J., Carteret*
 Sheller Condenser & Engineering Co.
N. J., Chrome
 Chrome Steel Works
- N. J., Dunellen*
 Ransome Concrete Machinery Co.
- N. J., East Carteret*
 Wheeler Condenser & Engineering Co.
- N. J., East Orange*
 New York Blower Co.
 Smith Mfg. Co., A. P.
- N. J., Elizabeth*
 American Metal Treatment Co.
 Bayway Chemical Co.
 Braunsdorf Mueller Co.
 Diehl Mfg. Co.
 Moore & Sons Corp., Samuel L.
- N. J., Flemington*
 Fulper Pottery Co.
- N. J., Garwood*
 Beckley Perforating Co., North Ave.
 Garwood Bronze & Iron Works
- N. J., Glassboro*
 Whitney Glass Works
- N. J., Haddonfield*
 Wingender & Bro., Chas.
- N. J., Hamilton Square*
 Mercer Rubber Co.
- N. J., Hampton*
 Standard Water Systems Co.
- N. J., Harrison*
 Driver-Harris Co.
 Hyatt Roller Bearing Co.
 Shriver & Co., T.
- N. J., Hoboken*
 Cooper-Hewitt Electric Co., 5th and
 Grand Sts.
 Daube & Hopkins Co.
 *Keuffel & Esser Co.
 Schrenk & Co.
 Schwarzwald & Sons, 'Inc., J., 15th
 and Jefferson Sts.
- N. J., Jersey City*
 Booth Co., L. M., 6 Hudson St.
 Corcoran, Inc., A. J., 763 Jersey Ave.
 Daube & Hopken
 Davis-Bournonville Co.
 Dixon Crucible Co., Joseph
 Drop Forging Co., 299 West Side Ave.
 Gautier & Co., J. H.
 Koven & Bro., L. O., 154 Ogden Ave.
 N. Y. Revolving Portable Elevator
 Co., 346-352 Garfield Ave.
 Otto Metal Goods Corporation, Wm.
 H., 401 St. Pauls Ave.
 Revolver Co., 344-52 Garfield Ave.
 Standard Motor Construction Co.
 172-80 Whiton St.
- N. J., Manville*
 Johns-Manville Co.

- N. J., Matawan*
 Munning-Loeb Co.
N. J., Millville
 International Glass Co.
 Millville Bottle Works
 Wheaton Co., T. C.
N. J., Newark
 Acid Proof Iron Products Co., Inc., 41 Hermon St.
 Alpha Alcohol Utensil Co., 367 N. 5th St.
 Alpha Mfg. Co.
 American Platinum Works, 225-231 New Jersey R. R. Ave.
 American Thermostat Co., 101 Mechanic St.
 American Transformer Co., 174-182 Emmet St.
 Atha Toll Co., Ft. Chapel St.
 Automatic Weighing Machine Co., 134-140 Commerce St.
 Baker & Co., Inc., 54 Austin St.
 Bernx, Otto, 21 Ashland Ave.
 Bishop & Co., Inc.
 Burroughs Co., Charles, 141-149 Commerce St.
 Coe & Co., C. T., 10-14 Johnson St.
 Couse & Bolton, 42-46 Lafayette St.
 Currier & Sons, Cyrus
 Electric Heating Apparatus Co., 123-125 Sussex Ave.
 Essex Foundry, Murray St. and Ave. D
 Faber, A. W., 41 Dickerson St.
 Gamon Meter Co., 282-296 South St.
 Gould & Eberhardt
 Greef Engineering & Mfg. Co., 36 Spring St.
 *Hanovia Chemical & Manufacturing Co., Chestnut St. and N. J. Railroad Ave.
 Hanson & Van Winkle Co., 269 Oliver St.
 *International Oxygen Co., 796 Frelinghuysen Ave.
 Isbell-Porter Co.
 Johnson, Wm., 88 Warren St.
 McCabe Boiler Works, 195 Commerce St.
 Manufacturers Can Co., 426 Mulberry St.
 Metal Products Co.
 National Lock Washer Co.
 Newark Brass Works, 20 Lawrence St.
 Newark Chamois Co.
 Newark Cork Works, 39 Barbara St.
 Newark Gear Cutting Machine, 69 Prospect St.
 Newark Wire Cloth Co., 222-228 Verona Ave.
 N. J. Wire Cloth Co.
 Rossendale-Reddaway Belting & Hose Co., Euclid Ave.
 Sayre & Son, L. A., 332 Mulberry St.
 Sloan & Chance Mfg. Co., Ltd., 6th Ave., cor. N. 13th St.
 Storm Mfg. Co., 50 Vessey St.
 Thermo Electric Instrument Co., 8 Johnson St.
 Tobin & Co., James L., 279 Oraton St.
 Webb Mfg. Co., Foot of Centre St.
 Weston Electrical Instrument Co., Waverly Park
 Williamson Wire Works, C. T.
N. J., New Brunswick
 Brunswick Refrigerating Co.
 Goetze Gasket & Packing Co.
 India Rubber Co.
 Pennsylvania Rubber Co.
N. J., New Jersey
 Flynn, W. S.
 Flynn, W. S., 74 Hudson St.
 Smooth-on Mfg. Co., 570-74 Communi-paw Ave.
N. J., Nutley
 Booth Co., L. M., 120 Center St.
N. J., Orange
 Edison Storage Battery Co.
N. J., Passaic
 Brighton Mills
 Dick, Ltd., R. & J.
 Manhattan Rubber Mfg. Co.
 Pantasoto Leather Co.
 Richardson Scale Co.
N. J., Paterson
 Watson Machine Co., 74 R. R. Ave.
N. J., Perth Amboy
 Chemical Pump & Valve Co.
 Didier-March Co., P. O. Box 327
 Pardee Works, C.
N. J., Plainfield
 New Jersey Meter Co.
 Rubber Insulated Metals Co.
N. J., Rochester
 Rochester Stamping Co.
N. J., Rutherford
 Becton, Dickinson Co.
N. J., Trenton
 Acme Rubber Mfg. Co.
 Bartley Crucible Co., J.
 Consolidated Rubber Co.
 Crossley Machine Co., Bell and Monmouth Sts.
 De Laval Steam Turbine Co.
 Empire Rubber & Tire Co.
 Hamilton Rubber Mfg. Co.
 Home Rubber Co.
 Luzerne Rubber Co., Muirheid Ave.
 Maddock Sons Co., Thomas
 New Jersey Wire Cloth Co.
 Pyroelectric Instrument Co., 636-649 E. State St.
 Roebling's Sons Co., John A.
 Stokes Rubber Co., Jos.
 Thermoid Rubber Co.

- Trenton Potteries Co.
 United & Globe Rubber Mfg. Co.
N. J., Vineland
 Doerr Glass Co., Peach St. and Boulevard
 Durand Glass Co.
 Kimball Glass Co.
 Sayford Paper Specialty Co.
N. J., Williamstown
 Williamstown Glass Co.
N. J., Woodbury
 Hodges Water Still Co., Inc., 33 S. Broad St.
N. Y., Albany
 Consolidated Car Heating Co., 413 Pearl St.
 Huyck & Sons, F. C.
 Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.
N. Y., Amsterdam
 Klauder-Weldon Dyeing Machine Co.
N. Y., Ancram
 Ancram Paper Mills
N. Y., Auburn
 Columbian Rope Co., 3050-75 Genesee Ave.
 Jewell Mfg. Co.
N. Y., Baldwinsville
 Morris Machine Works
N. Y., Beacon
 Green Fuel Economizer Co.
N. Y., Binghamton
 Ansco Co.
 Jones of Binghamton, Inc.
N. Y., Bladell
 Exolon Company
N. Y., Bronxville
 Ward, Leonard Electric Co.
N. Y., Brooklyn
 Abernethy, John F., 703 Myrtle Ave.
 Acton, John, 118 John St.
 Adams Co., J. J., 122 Greenpoint Ave.
 Arwe Mfg. Co., Carl H., 1348 DeKalb Ave.
 Atlantic Smelting & Refining Works, 36-42 Delaran St.
 Berg Mfg. Co., James, 3702 12th Ave.
 Bliss Co., E. W., 19 John St.
 Booth Felt Co., Inc., 440 19th St.
 Brandis & Sons Mfg. Co., 754 Lexington Ave.
 Brooklyn Filter Bag Co., 643 Kent Ave.
 Burh Demijohn Co.
 Burkhard, Inc., Thomas, 494 Flushing Ave.
 Crowell Mfg. Co., 298 Taaffee Pl.
 Boehler Die-Castings Co., 9th and Court Sts.
 Empire Tinware Co., 31 S. 5th St.
 Faber, Eberhard, 137 Greenpoint Ave.
 Gehrnich Indirect Heat Oven Co., Inc., 60-62 Franklin Ave.
 Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.
 Green, Henry J., 1191 Bedford Ave.
 Guild & Harrison, 463 Kent Ave.
 Hald Blow Pipe Works, Emil, 84 Oak St.
 Hauck Mfg. Co., 101-113 Eleventh St.
 Hay-Budden Mfg. Co., 256 N. Henry St.
 Hindley & Pendleton Co., 71 Greenpoint Ave.
 Houchin-Aiken Co., 113 53d St.
 Howard & Morse, 1197-1211 De Kalb Ave.
 Hubbard's Sons, Norman, 265 Water St.
 Improved Appliance Co., 413-419 Kent Ave.
 International Cork Co., 99 Sutton St.
 Johnson Co., Jno., 37th and 2d Ave.
 Katz & Co., Wm.
 Kent Inc., Robert Sayre, 50 Court St.
 Kent Mill Co., 10 Ravelva St.
 Kessling, E., 1027 Madison Ave.
 Krajewski Pesant Corp., 52 Beard St.
 Johnson Co., J. D., 51 Boerum Pl.
 Leffler & Co., Chas., 49-73 Clymer St.
 Lowerator Co., Inc., 631 Kent Ave.
 Lutz Mfg. Co., 162 Albany Ave.
 Meadon's Blower & Pipe Works, 23-27 Meserole Ave.
 Meurer Steel Barrel Co., Inc., 567 Flushing Ave.
 Moeller, A. E., 263 Sumpter St.
 Moller & Schuman Co., Marcy and Flushing Aves.
 Monarch Valve Co., 112 Front St.
 Moussette Co., Inc., O. J., 22-26 Clay St.
 Mundet & Son, L., King and Ferris St.
 National Filter Cloth & Weaving Co., 57 Hope St.
 National Gauge Co., 300 Pacific St.
 New York Leather Belting Co., 465 Kent Ave.
 New York Stamping Co., N. 11th and Berry Sts.
 Paddock Cork Co., 1209 DeKalb Ave.
 Phenix Tube Co., 182 N. 11th St.
 Phoenix-Hermetic Co., 38th and 14th Ave.
 Pioneer Iron Works, 149 Pioneer St.
 Planten & Sons, H., 93 Henry St.
 Robertson & Co., John, 133 Water St.
 Ross & Son Co., Chas.
 Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
 Silver & Co., 304 Hewes St.
 Standard Rolling Mill, 363 Hudson Ave.
 Sternau & Co., S., 160 John St.

- Sunlight Reflector Co., 141 Court St.
 Tagliabue Mfg. Co., C. J., 18 33d St.
 Trustlow & Fulle, Inc.
 Vant-Woud Rubber Co.
 Vogel & Bros., Wm., 47 S. 9th St.
 Ward, Marcus Cb.
 Wilfort Co., John, 258 Broadway
 Wilhelm, Henry, 70 Frost St.
 Williams & Co., J. H., 73 Richards St.
N. Y., Buffalo
 Acme Steel & Malleable Iron Works
 Aldrich Manufacturing Co., 55 Illinois St.
 Barcalo Mfg. Co.
 Bicalky Fan Co., 866 Prospect Ave.
 Bickford & Francis Belting Co.
 Buffalo Copper & Brass Rolling Mill.
 446 Military Road
 Buffalo Dental Mfg. Co., 587 Main St.
 Buffalo Engineering Co., Erie County Bank Bldg.
 Buffalo Forge Co., 490 Broadway
 Buffalo Foundry & Forge Co.
 Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
 Buffalo Meter Co., 2913 Main St.
 Buffalo Scale Company, 1200 Niagara St.
 Buffalo Steam Pump Co., 480 Broadway
 Buffalo Wire Works Co., 500 Terrace St.
 Century Telephone Construction Co., 1738 Elmwood Ave.
 Cling-Surface Company
 Crandall Can Filler Machine Co. 1391 Niagara St.
 Cox Process Co.
 Crosby Co., 137 Pratt St.
 Cutler Desk Co., 34 Churchill St.
 Devine Company, J. P., 1376-1388 Clinton St.
 Excelsior Steel Ball Co.
 Farrar & Trefts, Inc., 47 Perry St.
 General Specialty Co., 291-295 Michigan Ave.
 Hercules Waterproof Cement Co., Mutual Life Bldg.
 Hewitt Rubber Co., 240 Kensington Ave.
 Hoover & Strong, 119 Tupper St.
 Keker Blower Co., 2383 Fillmore Ave
 Lobee Pump Works, 19-31 Bridge St.
 Lowers Mfg. Co.
 Lumen Bearing Co., 1155 Sycamore St.
 National Grinding Wheel Co., Inc.
 Pierce Co., William E., 45 N. Division St.
 Ray Mfg. Co., Geo. A., 1495 Niagara St.
 Republic Metalware Co., 100 Alabama Ave.
 Rice & Adams Corporation
 Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
 Ruger Mfg. Co., 222 Chicago St.
 Sherwood Mfg. Co., 1702 Elmwood Ave.
 Sowers Mfg. Co., 1300 Niagara St.
 Spencer Lens Co., 442 Niagara St.
 Squier Mfg. Co., Geo. L., Broadway and Mortimer Sts.
 Stowe, Geo. M. Jr., 119 Dearborn St.
 Taber Pump Co.
 Trout Co., H. G., 226 Ohio St.
 Zarembo Co., D. S. Morgan Bldg.
N. Y., Burlington
 Stuart & Peterson Co.
N. Y., Camden
 Webster & Co., Warren
N. Y., Canandaigua
 Lisk Mfg. Co.
N. Y., Carthage
 Carthage Machine Co.
 Carthage Sulphite Pulp & Paper Co.
N. Y., Corning
 Corning Glass Works
N. Y., Cortland
 Champion Milk Cooler Co.
N. Y., Dunkirk
 Atlas Crucible Steel Co.
N. Y., Elmira
 American-La France Fire Engine Co., Inc.
 Kennedy Valve Mfg. Co.
 Wyckoff & Son Co., A.,
N. Y., Frankfurt
 Acme Road Machinery Co.
N. Y., Franklinville
 Ontario Knife Co.
N. Y., Fulton
 Fulton Aluminum Works
N. Y., Geneva
 Chapman Co.
N. Y., Glen Cove
 Ladew Co., Inc., Edward R.
N. Y., Glen Falls
 Glen Falls Machine Works
N. Y., Gloucester
 Welsbach Co.
N. Y., Hillburn
 Ramapo Iron Works
N. Y., Hoboken
 Cooper-Hewitt Electric Co., 8th and Grand Sts
 Tidewater Iron Works, 725 Jefferson St.
N. Y., Hudson
 Clifford-Wood Co.
N. Y., Ithaca
 Morse Chain Co.
 Morse Thermo-Gage Co., Inc.
N. Y., Jamestown
 Art Metal Construction Co.
 Dahlstrom Metallic Door Co., 10 Blackstone Ave.

- Jamestown Window Screen Co.
 Watson Mfg. Co.
N. Y., Kingston
 Universal Road Machinery Co.
N. Y., Lackawanna
 Lackawanna Steel Co.
N. Y., Lancaster
 Lancaster Machine & Knife Works
N. Y., Little Falls
 *Burrell & Co., D. H.
N. Y., Livingston
 Hunt Co., C. W.
N. Y., Lockport
 Fibre Corporation
 Merritt Mfg. Co.
N. Y., Long Island City
 Anthony Company, 138 West Ave.
 Commercial Research Co.
 Horn Company, A. C., Horn Bldg.
 Jensen Creamery Machine Co.
 Leddell Metals Co., 285 Border St.
 Rubber Stopper Co.
 Steubner Iron Works, G. L., Hancock
 St. and Vernon Ave.
 Surface Combustion Co., Wilbur Ave.
 and Sunswick St.
N. Y., L. I., Rockville Centre
 Nassau Valve & Pump Co., Inc.
N. Y., Mariners Harbor
 Waters Co., Geo. H.
N. Y., Mechanicsville
 Mechanicsville Specialty Supply Co.
N. Y., Mt. Lebanon
 Wagan & Co., R. M.
N. Y., Napanoch
 Frost & Son Paper Co.
N. Y., Newburgh
 Coldwell-Wilcox Co.
N. Y., New York City
 Abbe Engineering Co., 220 Broadway
 Abbe, Paul O., 30 Broad St
 Acetylene Gas Illuminating Co., 405
 Broome St.
 Acme Diamond Tool Co., 56 Liberty
 St.
 Acme Tank Co., 39 Cortlandt St.
 Aero Pulverizer Co., 120 Broadway
 Aetna Explosives Co., 12 Rector St.
 Aetna Steel Products Co., Inc., 40
 Church St.
 Aimone Mfg. Co., 430 E. 23d St.
 Air Reduction Sales Co., 120 Broadway
 Akerlund & Semmes, Inc., 17 Battery
 Pl
 Alberger Pump & Condenser Co., 140
 Cedar Ave.
 Alberene Stone Co., 223 E. 23d St.
 Allan & Son, A., 494 Greenwich St.
 *Aluminum Goods Mfg. Co., 30 Church
 St.
 Amalgamated Paint Co., 42 Broadway
 American Brass Forging Co., Inc., 168
 Southern Blvd.
 American Bridge Co., 30 Church St.
 American Can Co., 120 Broadway
 American Car & Foundry Co., 165
 Broadway
 American Cart Foundry Co., 165.
 Broadway
 American Enameled Brick & Tile Co.,
 52 Vanderbilt Ave.
 American Ever Ready Co., 304 Hudson
 Ave.
 American Foundry Equipment Co., 52
 Vanderbilt Ave.
 American Gas Furnace Co., 24 John
 St.
 American Glue Works, 14 Ferry St.
 American Hard Rubber Co., 11 Mercer
 St.
 American Iron Scale Co., 430 E. 53d
 St.
 American Kron Scale Co., 430 E. 53d
 St.
 American Lead Burning Corp., 30
 Church St.
 American Lead Pencil Co., 220 5th
 Ave.
 American Metal Co., Ltd., 61 Broad-
 way
 American Meter Co., 105 W. 40th St.
 American Mica Co.
 American Process Co., 68 William St.
 American Rust Proof Co., 39 Church
 St.
 American Scientific Instrument Co.,
 Inc., 50-56 John St.
 American Smelting & Refining Co., 120
 Broadway
 *American Sponge & Chamois Co.,
 Inc., 73 Wooster St.
 American Spray Co., 26 Cortland St.
 American Steel Co., 45 W. 34th St.
 American Thermo-Ware Co., 16 War-
 ren St.
 Ajax Grieb Rubber Co., 1796 Broad-
 way
 Andrews, Inc., William, 120 Liberty
 St.
 Angel & Co., Inc., Reeve H., 120
 Liberty St.
 Asbestolith Mfg. Co., 1 Madison Ave.
 Asbestos Textile Co., Woolworth Bldg.
 Ashenfarb, S. L., 356 W. Broadway
 Automatic Sprinkler Co. of America,
 123 William St.
 Babcock & Wilcox Co., 85 Liberty St.
 Bache, Semon & Co., West & Hubert
 St.
 Barowsky, Hans, 32 Union Square
 Barrett Co., The, 17 Battery Pl.
 Bauer & Black, 104 E. 25th St.
 Beach-Russ Co., 220 Broadway
 Becker, Inc., Christian, 92 Reade St.
 Beggs & Co., James, 36 Warren St.
 *Behrend, F., 54 Front St.

- *Berge, J. & H., 95 John St.
 Bernard & Co., F. J., 70 Murray St.
 Best, Inc., W. N., 11 Broadway
 Bethlehem Foundry & Machine Co.,
 149 Broadway
 Binney & Smith Co., 81 Fulton St.
 Bishop Gutta Percha Co., 420 E. 25th
 St.
 Blake & Knowles Steam Pump Works.
 115 Broadway
 Boettinger Co., Louis A., 48 Leonard
 St.
 Bogert & Hopper, 162 William St.
 Bohemian Glass Works, 10 Platt St.
 Bonner & Barnwell, Inc., 30 Church St.
 Bontempi Rust Proofing Co., 1 W. 34th
 St.
 *Borgfeldt & Co., Geo., 16th and Irv-
 ing Pl.
 Bosch Magneto Co., 223-25 W. 46th St.
 *Bouline, Victor J., 1 Union Square
 Boyle & Co., John, 112 Duane St.
 Bradley & Smith, 261 Pearl St.
 Branhall-Deane Co., 261 W. 36th St.
 Bronze Metal Co., 30 Church St.
 Brown Co., The A. & F., 79 Barclay St.
 Buchanan Co., Inc., C. G., 90 West St.
 Bunnell & Co., J. H., 32 Park Pl.
 Burhorn Co., Edwin, 71 Wall St.
 Cameron Steam Pump Works, A. S., 11
 Broadway
 Carrier Air Conditioning Co. of Amer-
 ica 490 Broadway
 Carrier Engineering Corp., 39 Cort-
 land St.
 Cave Welding & Mfg. Co., 32 Liberty
 St.
 Celite Products Co., 11 Broadway
 Celluloid Zapon Co., 200 5th Ave.
 Central Belting Co., 151 Lafayette St.
 Central Foundry Co., 90 West St.
 Central Stamping Co., 174 Fulton St.
 Chatillon & Sons, John, 85-93 Cliff St.
 Clothel Company, 61 Broadway
 Colwell Cooperage Co., 412 414 Green-
 wich St.
 Columbian Bronze Corporation, 50
 Church St.
 Combustion Engineering Corp., 11
 Broadway
 Connelly Iron Sponge & Governor Co.,
 227 Fulton St.
 Consolidated Fruit Jar Co., 290 Broad-
 way
 Conveying Weigher Co., 90 West St.
 Cordley & Hayes, 7 Leonard St.
 Cooling Tower Co., Inc., The, 17 John
 St.
 Consolidated Dental Mfg. Co., 134
 Washington Pl.
 Cooper & Co., Chas. 194 Worth St.
 Cornell Iron Works, 26th and 11th Ave.
 Cravenette Co., U. S. A., 354 4th Ave.
 Deeley & Co., Robert, 29 Broadway
 Demuth Glass Mfg. Co., 32 W. Broad-
 way
 Diamond Drill Carbon Co., 53-63 Park
 Row
 Diamond Expansion Bolt Co., 90 West
 St., cor. Cedar
 DeLaval Separator Co., 165 Broadway
 Dicks Slosson Co., Inc., 302 Broadway
 De La Vergne Machine Co., 1123 E.
 138th St.
 Dominion Asbestos & Rubber Corpo-
 ration, 154 Nassau St.
 Doniger & Co., 164 5th Ave.
 Dori & Co., F., Park Row Bldg.
 Dorr Co., The, 101 Park Ave.
 Dougherty, J. T., 409 W. 59th St.
 Dover Boiler Works, 55 Church St.
 Dreadnaught Flooring Co., Madison
 Ave. and 42d St.
 DuBois & Co., F. N., 245 9th Ave.
 Du Pont Chemical Works, 120 Broad-
 way
 Duriron Castings Co., 90 West St.
 DuViver, Ernest H., 30 Church St.
 Dwight & Lloyd Sintering Co., 29
 Broadway
 Eagle Pencil Co., 377 Broadway
 Easton Car & Construction Co., 30
 Church St.
 Eimer & Amend, 205-11 3d Ave.
 Electrolytic Engineering Corporation,
 501 Fifth Ave.
 Electrolytic Oxy-Hydrogen Labs.,
 Inc., 15 William St.
 Electric Weighing Co., 180 13th St.
 Electro Importing Co., 233 Fulton St.
 Elgin Brass Co., 94 John St.
 Empire Laboratory Supply Co., 411
 Lexington Ave.
 Engelhard, Charles, 30 Church St.
 Equitherm Control Corp., 30 Church
 St.
 Estes & Sons, E. B., 362 5th Ave.
 Estey Wire Works, 32 Cliff St.
 Everlasting Valve Co., 2 Rector St.
 Fairbanks Co., 416 Broome St.
 *Farrell, W. J., 115 Maiden Lane
 Federal Terra Cotta Co., 103 Park Ave
 Foote, Pierson & Co., 160 Duane St.
 Foundation Co., The, Woolworth
 Bldg.
 Fortuna Machine Co., 127 Duane St.
 Fougere & Co., E., 90 Beekman St.
 Frasse & Co., Inc., Peter A., 417 Canal
 St.
 Frink, Isaac P., 551 Pearl St.
 Fuerst Bros. & Co., 2 Stone St.
 Furman-Fisher Corporation, 30 Church
 St.
 Garrigue & Co., Wm., 154 Nassau St.
 Gary Co., Theo. H., 67 Irving Pl.
 General Bakelite Co., 2 Rector St.

- Gedney Capsule Co., 767 E. 133d St.
 General Briquetting Co., 25 Broad St.
 General Ceramics Co., 50 Church St.
 General Elevator Co., 29 Broadway
 General Platers Supply Co., Inc., 58 Wall St.
 Gennert, G., 24 E. 13th St.
 Gerdes & Co., Inc., 36 Church St.
 Goebel & Co., J., 129 Maiden Lane
 Goepel & Co., C. F., 137 E. 13th St.
 Gold Car Heating & Lighting Co., 17 Battery Pl.
 Goodyear Glove Co., 503 Broadway
 Goodyear Rubber Co., 787 Broadway
 Gordon Dryer Corporation, 39 Cortland St.
 Gordon Engineering Corp., 39 Cortlandt St.
 Grafrath, Chas., 360 W. 50th St.
 *Graham & Berwin, (Imp.), 148 Chambers St.
 Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
 Graham & Co., John H., 113 Chambers St.
 *Graham & Zenger, Inc., (Imp.) 104 5th Ave.
 Grand Rapids Show Case Co., 724 Broadway
 Grape Capsule Co., 108 Fulton St.
 Green Fuel Economizer Co., The, 90 West St.
 Greene, Tweed & Co., 109 Duane St.
 *Greiner Co., Emil, 55 Fulton St.
 Griscom-Russell Co., 90 West St.
 Guarantee Construction Co., 90 West St.
 Gutman & Co., Ferdinand, 175 Franklin St.
 Gutta Percha & Rubber Mfg. Co., 127 Duane St.
 Guttman, A., 10 McDougal St.
 Haiss Mfg. Co., Geo., 141st and Rider Ave..
 Hahn, A. W., 359 Greenwich St.
 Hammel Oil Burning Equipment Co., 350 Pearl St.
 Hardinge Conical Mill Co., 120 Broadway
 Hardmuth, L. & C., 34 E. 23d St.
 Haring, Ellsworth, 114-18 Liberty St.
 Hastings Pavement Co., 25 Broad St.
 Hayes Duster Co., 83 Grand Ave.
 Hayward & Co., S. F., 250 W. 54th St.
 Hayward Co., 50 Church St.
 Henry-Bonnard Bronze Co., 10 Exchange Pl.
 Hepworth Co., S. S., 2 Rector St.
 Hercules Engineering Corporation, 501 Fifth Ave.
 Higley Machine Co., Singer Bldg.
 Hirshberg Co., H. M., 853 Broadway
 Hodgman Rubber Co., 806 Broadway
 Holly Pneumatic Systems, Inc., 145 W. 45th St.
 Holophane Glass Co., Inc., 240 Madison Ave.
 *Holz, Herman A., Metropolitan Tower
 Hooker Electro Chemical Plants, 40 Wall St.
 Hospital Supply Co., 55 5th Ave.
 Houchin Co., Thos. W., 38 E. 21st St.
 Howe Scale Co., of New York, 341 Broadway
 Hungerford Brass & Copper Co., U. T., 84 La Fayette Ave.
 Hydrex Felt & Eng. Co., 120 Liberty St.
 Hydro-Pneumatic Disinfecting Co., 221 Mercer St.
 Hsley, Doubleday & Co., 229 Front St.
 Imex Corp., 25 Beaver St.
 Improved Equipment Co., 60 Wall St.
 Independent Filter Press Co., Inc., 47 W. 34th St.
 Indian Refining Co., 17 Battery Pl.
 Industrial Filtration Corp., 115 Broadway
 Ingersoll-Rand Co., 11 Broadway
 International Filtration Corp., 115 Broadway
 International Leather & Belting Corporation, 511 Fifth Ave.
 International Oxygen Co., 115 Broadway
 International Process Co., 5 Beekman St.
 International Rubber Co., 225 5th Ave.
 Isaacs & Co., A., 54 Beekman St.
 Jacoby, H. E., 95 Liberty St.
 Jenkins Bros., 80 White St.
 Johns-Manville Co., Madison Ave. and 41st St.
 Jordan, William E., 11 Cliff St.
 Kahn, Jacques, 533 W. 37th St.
 Kalbpery Corp., 31 Union Square
 K.-B. Pulverizer Co., 86 Worth St.
 Kellogg Co., The M. W., 90 West St.
 Kennedy-Stroh Corp., 120 Liberty St.
 K-G Welding & Cutting Co., 556 W. 34th St.
 Kidd & Mfg. Co., Jerome, 820 Broadway
 Kieley & Mueller, Inc., 34 W. 13th St.
 Kiggins & Tooker Co., 35 Park Pl.
 King Optical Co., 14 Maiden Lane
 Knapp & Baxter, Inc., 30 Church St.
 Knapp Mfg. Co., 48 Warren Ave.
 *Kny-Scherer & Co., 404 W. 27th St.
 Kohlbusch Herman, 170 Broadway
 Koller & Smith, Inc., 159 Leonard St.
 Lalance & Grosjean Mfg. Co., 299 Broadway
 Lamb, Finlay & Co., 258 Church St.

- Lane & Co., J. H., 334 4th Ave.
 Larkin & Co., J. K., 34 Reade St.
 Lasker & Bernstein, 161 William St.
 Laurence Belting Co., 111 Chambers St.
 Lawson & Co., Inc., 90 West St.
 Leavitt & Co., C. W., 36 Church St.
 Leiner & Co., Geo. S., 1250 Brook Ave.
 Leitz, Ernest, 30 E. 18th St.
 *Lenz Apparatus Co., Inc., 18 E. 16th St.
 Linde Air Products Co., 42d St. Bldg
 Clonney & Co., 32 Walker St.
 Lidgerwood Mfg. Co., 96 Liberty St.
 Locomotive Pulverized Fuel Co., 30 Church St.
 Locomotive Superheater Co., 30 Church St.
 Louis Co., O. T., 70 5th Ave.
 Lubricating Metal Co., 2 Rector St.
 Lowerator Co., Inc., 246 W. 23d St.
 Ludlum Steel Co., 2 Rector St.
 *Lungwitz, Emil E., 30 Church St.
 *MacGovern & Co., Inc., 114 Liberty St.
 *Machinery Utilities Co., Inc., 501 5th Ave.
 Machlett & Son, E., 153 E. 84th St.
 Magnolia Metal Co., 115 Bank St.
 Magnus Co., The, 111 Broadway
 Manhattan Electrical Supply Co.
 Maris & Co., J. M., 40 Barclay St.
 Mashek Engineering Co., 90 West St.
 Maurer & Sons, Henry, 420 E. 23d St.
 McKesson & Robbins, Inc., 91 Fulton St.
 Mechanical Rubber Co., 73 Reade St.
 Melville, F. L., 83 Water St.
 Metal & Thermit Corp., 120 Broadway
 Metals Productions Equipment Co., 165 Broadway
 Mica Mfg. Co., 152 Chambers St.
 Miller & Co., C. L.
 Miller Rubber Co., 68 Murray St.
 Mine & Smelter Supply Co., 42 Broadway
 Minimax Co., 63 Wall St.
 Mitchell-Bissell Co., 4th Ave. and 20th St.
 Montgomery & Co., Inc., 105-107 Fulton St.
 Moore Filter Co., 115 Broadway
 Morris & Co., Theo. W., 440 Canal St.
 Mott Iron Works, J. L., 118 5th Ave., Cor. 17th St.
 Mosen Son & Co., A., 73 Wooster St.
 Multi Metal Co., 251 W. 19th St.
 Napier-Browning Co., 105 W. 40th St.
 National Binding Machine Co., 260 West St.
 National Gum & Mica Co., 59th St. and 11th Ave.
 National Enameling & Stamping Co., 411 Fifth Ave.
 National Helmet Co., 39 Park Pl.
 National Lead Co., 111 Broadway
 National Leather Belting Co., 342 E. 38th St.
 National Meter Co., 84-86 Chambers St.
 National Resuscitating Apparatus Company, Inc., The, 39 E. 19th St.
 National Sponge & Chamois Co., 158 William St.
 Neptune Meter Co., 90 West St.
 New Jersey Foundry & Machine Co., 88 West St.
 New York Air Brake Co., 165 Broadway
 New York Belting & Packing Co., 91 Chambers St.
 New York Blue Print Paper Co., 58 Reade St.
 New York Continental Jewell Filtration Co., 15 Broad St.
 New York Rubber Co., 84 Reade St.
 Niles-Bement-Pond Co., 111 Broadway
 Oakley Chemical Co., 40 Thomas St.
 Ordway, Charles, 174 Fulton St.
 Ostermoor & Co., 116 Elizabeth St.
 Ostrander & Co., W. R., 371 Broadway
 Otis Elevator Co., 11th and 26th St.
 Otto Coking Co., 6 Church St.
 Oxweld Acetylene Co., 30 E. 42d St.
 *Palo Company, 90 Maiden Lane
 Peerless Rubber Mfg. Co., 31 Warren Ave.
 Permutit Co., The, 440 4th Ave.
 Pignolet, Louis M., 78 Cortlandt St.
 Pittsburgh Tank Co., 15 Park Row
 Post & Co., F. L., 50 Cliff St.
 Pratt & Whitney Co., 111 Broadway
 Provost Engineering Corporation, 220 Broadway
 Pulverizer Co., Inc., K-B, 70 Worth St.
 Quigley Furnace Specialties Co., Inc., 26 Cortlandt St.
 Rahmann & Co., Geo., 31 Spruce St.
 *Rebele, L. J., 50 Church St.
 Reich, L. R., 66 Reade St.
 Reilly Bros., 322 W. 41st St.
 Reisert Automatic Water Purifying Co., 23 E. 26th St.
 Research Corporation, 63 Wall St.
 Robbins Conveying Belt Co., Park Row Bldg.
 Roberts Elevator Co., James H.
 Robertson & Son, James L., 78-80 Murray St.

- Robinson Clay Products Co., of New York, Fuller Bldg.
 Roessler & Hasslacher Chemical Co., 100 William St.
 Roller-Smith Co., 233 Broadway
 Rogers Wire Works, Inc., 291 Broadway
 Roos Son, August, 429 E. 91st St.
 Rothschild, Meyers & Co., 30 Irving Pl.
 Ruggles-Coles Engineering Co., 50 Church St.
 Rutter, Arthur T., 256 Broadway
 St. Lawrence Talc Co., 7 E. 42d St.
 Sanborn Evaporator Co., 50 Broad St.
 Sand Mixing Machine Co., 52 Vanderbilt Ave.
 Sarco Co., Inc., Woolworth Bldg.
 Scandinavia Belting Co., 106-108 Reade St.
 Schaaf-Regelman, E., 21 State St.
 *Scheel, Wm. H., 159 Maiden Lane
 Scheidig & Co., John, 32 Maiden Lane
 Schieffelin & Co., 170 William St.
 Schieren Co., Chas. A., Schieren Bldg
 Schuchardt & Schutte, 90 West St.
 Schwartz Belting Co., 76 Murray St.
 *Schwenker, Inc., W. M., 340-144 E. 92d St.
 Scientific Equipment Co., 70 5th Ave.
 *Scientific Utilities Co., Inc., 84 E. 10th St.
 Sedgwick Machine Works, Inc., 128 W. Liberty St.
 Selas Co., 521 W. 23d St.
 Shore Instrument & Mfg. Co., 557 W. 22d St.
 Sidio Co. of America, Inc., The, 37 Murray St.
 Simmons Co., John, 110 Center St.
 Sittig, J. W., 5 Beekman St.
 Slocum, Avram & Slocum Lab., Inc., Smith & Co., F. L., 50 Church St.
 Smith-Serrall Co., Inc., Cedar and West Sts.
 Smith & Co., Alfred H., 35 W. 33d St.
 Soltmann, E. G., 134 W. 29th St.
 Sonneborn Sons, Inc., L., 262 Pearl St.
 Spencer Optical Co., 7 Maiden Lane
 Sprague Electric Works, 527 W. 34th St.
 Standard Oil Co., 26 Broadway
 Standard Scientific Co., 147 Waverly Pl.
 Standard Steam Specialty Co., 542 W. Broadway
 *Standard Tank Co., 15 Park Row
 Stanley, W. W., 50 Church St.
 Star Expansion Bolt Co., 147-149 Cedar St.
 Stevens, Aylsworth Co., Inc., 253 Broadway
 Stevens Bros., 149 Broadway
 Stitzel & Buecher, 155 W. 29th St.
 Stokes & Co., Wm. A.
 Strauss & Co., Adolph, 678 Broadway
 Susfield, Lorsch & Co., 90 Maiden Lane
 Swedish Iron & Steel Corp., 12 Platt St.
 Talc Products Co., 11 Pine St.
 Ten Broeck & Hubber, Inc., 214 E. 23d St.
 Texas Co., 17 Battery Pl.
 Thermal Syndicate, Ltd., The, 50 E. 41st St.
 Tirrill Gas Machine Lighting Co., 103 Park Ave.
 Toch Bros., 320 5th Ave.
 Tolhurst Machine Works, 111 Broadway
 Torsion Balance Co., 92 Reade St.
 Treadwell Co., M. H., 140 Cedar St.
 Troegerlith Tile Co., 103 Park Ave.
 Trageser Steam Copper Works, Jno., 447 W. 26th St.
 Thurnauer & Bro., G. M., 83 Worth St.
 Traun Rubber Co., 335 Broadway
 Turl Iron & Car Co., Inc., 50 Broadway
 Turl's Sons, Jno., 55 Liberty St.
 *Turner, Halsey Co., 62 Leonard St.
 Uehling Instrument Co., 71 Broadway
 United Filters Corporation, 65 Broadway
 United Lined Tube & Valve Co., 111 Broadway
 U. S. Bottle Machinery Co., 90 W. Broadway
 United Brush Mfg. Co., 203 Lafayette St.
 U. S. & Cuban Allied Works Eng. Corporation, 50 Broad St.
 U. S. Gauge Co., 67 Wall St.
 U. S. Indestructible Gasket Co., 50 Church St.
 U. S. Mineral Wood Co., 281 Madison Ave.
 U. S. Rubber Co.
 U. S. Tire Co., Broadway and 58th St.
 Van Emden & Co., H., 145 W. 45th St.
 Van Wagoners-Linn Construction Co., 1133 Broadway
 Vulcanized Rubber Co., The, 251 4th Ave.
 Waddell & Co., R. J., 55 Beekman St.
 Wagner Bros. Co., 45 John St.
 Wagner Glass Works, 965 E. 132d St.
 Waite & Bartlett Mfg. Co., 252 W. 29th St.
 Warner Chemical Co., 52 Vanderbilt Ave.
 Washburn & Granger, 50 Church St.
 Waterbury Co., 63 Park Row
 Watters Laboratories, Cons., 55 5th Ave.

- Weinhagen, H., 159 Leonard St.
 Welding Supply Co., Inc., 132 Nassau St.
 Wellman-Seaver-Morgan Co., 50 Church St.
 • West Disinfecting Co., 9 E. 59th St.
 Western Electric Co., 195 Broadway
 Westinghouse, Church, Kerr & Co., 37 Wall St.
 Wetmore Co., S. H., 242 Pearl St.
 Wheeler-McDowell Elevator Co., 417 Canal St.
 White, Fred C., 241 Water St.
 Whitney Glass Works, 220 Broadway
 Wiebusch & Hilger, 106 Lafayette St.
 Wildman-Treherne Co., 85 Franklin St.
 Wilfert Co., John, 259 Broadway
 Wilkinson Bros. & Co., 419 Broome St.
 Williams-Electro-Medical Battery Co., 82 W. Broadway
 Williams, Roger, 25 W. 42d St.
 Williamsburg Cork Works, 50 Church St.
 Willmarth Show Case Co.
 Wilson-Maehlen Co., 781 E. 142d St.
 Wing Mfg. Co., L. J., 352 W. 13th St.
 Wolf & Co., Chas. A., 50 Park Pl.
 Worthington Pump & Machinery Corp., 115 Broadway
 Yale & Towne Mfg. Co., 9 E. 40th St.
 Young Co., Richard, 36 Spruce St.
 Zaubitz, August, 95-197 Cliff St.
 N. Y., *Niagara Falls*
 Acheson Graphite Co.
 Carborundum Co.
 Dobbie Foundry & Machinery Co.
 General Abrasive Co.
 International Acheson Graphite Co.
 International Cooperage Co., Erie Ave. and 9th St.
 Star Electrode Works of National Carbon Co., Inc.
 Titanium Alloy Mfg. Co.
 Titanium Bronze Co., The
 U. S. Light & Heat Corp.
 N. Y., *New Rochelle*
 Voland & Sons
 N. Y., *North Tonawanda*
 American District Steam Co.
 Lawson, Crowell & Co.
 N. Y., *Olean*
 Luther Mfg. Co., 133 Railroad Ave.
 Van Atta & Co., Inc., E. B.
 N. Y., *Oriskany*
 Waterbury & Sons Co., H.
 N. Y., *Oswego*
 Kingsford Foundry & Machine Works
 N. Y., *Peekskill*
 Naylor Bros.
 N. Y., *Poughkeepsie*
 Lane Bros. & Co.
 Trussell Mfg. Co.
 N. Y., *Rochester*
 American Woodworking Machine Co.
 Auburn Ball Bearing Co., 22 Elizabeth St.
 Bausch & Lomb Optical Co., St. Paul St.
 Boutell Mfg. Co.
 *Castle Co., Wilmot, 800 St. Paul S
 Cross Bros. & Co., 112-114 Mill St.
 Eastman Kodak Co., 243 State St.
 General Filtration Co., Inc., Cutler Bldg.
 Gleason Works, 1019 University Ave.
 Knowlton Co., M. D.
 Pfaudler Co.
 Rochester Spray Pump Co., 179 Broadway
 Stromberg-Carlson-Telephone Mfg Co.
 Strong & Hery Co.
 Taylor Instrument Cos., 95 Ames St.
 Will Corporation
 Wilmot Castle Co., 800 St. Paul St.
 Wood Mosaic Co.
 Yawman & Erbe Mfg. Co.
 N. Y., *Rochville Centre, Long Island*
 Nassau Valve & Pump Co., Inc
 N. Y., *Rome*
 Betson Plastic Fire Brick Co.
 Rome Brass & Copper Co.
 Rome Hollow Wire & Tube Co.
 N. Y., *Schenectady*
 General Electric Co.
 N. Y., *Seneca Falls*
 Goulds Mfg. Co.
 N. Y., *Syracuse*
 Boomer & Boschert Press Co.
 Booth Apparatus Co., Warren St.
 Continental Can Co.
 Direct Separator Co.
 Dunning, W. D., 340 W. Water St.
 Dunning & Boschert Co.
 Empire Metal Co.
 Engle Mfg. Co.
 Halcomb Steel Co.
 Houser Elevator Co., 314 E. Water St.
 Merrell-Soule Co.
 Pneumelectric Machine Co.
 Semet-Solvay Co.
 Solvay Process Co.
 Syracuse Industrial Gas Co., 206 McCarthy Bldg.
 Syracuse Twist Drill Co.
 N. Y., *Ticonderoga*
 Ticonderoga Pulp & Paper Co.
 N. Y., *Tonawanda*
 National Roofing Co., 164 Fillmore Ave.
 N. Y., *Troy*
 Gurley, W. & L. E.
 Hanna Mfg. Co.
 McLeod & Henry Co.
 Monarch Steam Blower Co.

- Ross Valve Mfg. Co.
 Tolhurst Machine Works
 Troy Stamping Works
N. Y., Utica
 Bossert Corp., The
 Divine Bros. Co.
 Munson Mill Machinery Co., Inc., 405
 Broadway
N. Y., Watertown
 Bagley & Sewall Co.
 Stebbins Engineering & Mfg. Co.
 Watertown Specialty Co., 112 E.
 Moulton St.
 Watertown Thermometer Co.
N. Y., West New Brighton, Staten Island
 Hunt Co., Inc., C. W.
N. Y., Woodbury
 Hodges Water Still Co., Inc., 33 S.
 Broad St.
N. Y., Woodhaven
 Chemical Equipment Co.
N. C., Charlotte
 Chemical Construction Co., Trust
 Bldg.
 Cramer, Stuart C.
N. C., Hickory
 Latta-Martin Pump Co.
Ohio, Akron
 Akron Metallic Gasket Co., 152 N.
 Union St.
 American Sewer Pipe Co.
 Biggs Boiler Works Co., Bank and
 Williams Sts. and B. & O. R. R.
 Burt Mfg. Co.
 Goodrich Co., B. F.
 Goodyear Tire & Rubber Co.
 Miller Rubber Co.
 Robinson Clay Product Co.
 Star Rubber Co.
 United States Stoneware Co.
 Weeks, A. J.
 Whitman & Barnes Co.
 Williams Foundry & Machine Co.
Ohio, Alliance
 Alliance Machine Co.
 Morgan Engineering Co.
 Reeves Bros. Co., 340 Rush St.
Ohio, Ashland
 Faultless Rubber Co.
 Myers & Bro., F. E., 900 Orange St.
Ohio, Bryan
 Bryan Novelty Mfg. Co.
Ohio, Bucyrus
 American Clay Machinery Co.
Ohio, Cambridge
 Cambridge Glass Co.
 Guernesey Earthenware Co.
Ohio, Canton
 Berger Mfg. Co.
 Best Light Co.
 Bonnot Co.
 Canton Art Metal Co.
 Sun Vapor & Gas Street Light Co.
 Timkon Roller Bearing Co.
 Whiteman Mfg. Co.
Ohio, Celina
 Celina Specialty Co.
Ohio, Cincinnati
 Alvey-Ferguson Co.
 American Laundry Machinery Co.
 American Copper & Brass Works, 612
 E. Front St.
 American Tool Works
 American Valve & Meter Co., 2833
 Springfield Ave.
 Bradford Belting Co., 201 Walnut St.
 Berghausen Chem. Co., The E., 307
 E. 2d St.
 Blymer Iron Works Co., Spring Grove
 Ave. and Terrace St.
 Bromwell Brush & Wire Goods Co., 612
 W. 6th St.
 Burr Oak Belting Co., 521 Livingston
 St.
 Cincinnati Cooperage Co., W. 6th St.
 Cincinnati Gasket & Packing Co.,
 1546-48 Elm St.
 Cincinnati Planer Co., Oakley
 Cincinnati Rubber Co., Franklin Ave.,
 Norwood
 Cleveland Fabric Belting Co., 1473 W.
 110th St.
 Cookson Steam Specialty Co., 60-62
 Central Ave.
 Compressed Wood Preserving Co.,
 4600 Spring Grove Ave.
 Crane & Breed Mfg. Co., 1227 W. 8th
 St.
 Craghead Engineering Co., 340 Main
 St.
 Day Co., J. H., 1144 Harrison Ave.
 Deckebach Sons Co., F. C., 129 W.
 Court St.
 Eagle Counter & Leather Co., 414-416
 8th St.
 Edwards Mfg. Co., 306-336 Eggleston
 Ave.
 Erhart, Chris., 1237-41 Sixth Ave., W.
 Fosdick Machine Tool Co., Blue Rock
 & Apple St.
 Globe-Wernicke Co., 130 E. 4th St.
 Hauser-Stander Tank Co., 2118 Divi-
 sion St.
 Hawson-Stander Tank Co.
 Hisey-Wolf Machine Co., Colerain &
 Marshall Sts.
 Honhorst Co., Jos.
 Houston-Stanwood & Gamble Co., The
 Interstate Sanitation Co., 135 E. 3d St.
 Jantz & Leist Electric Co.
 Kiechler Mfg. Co., Wade & Denman
 Sts.
 King Machine Tool Co.
 King Powder Co., 1st National Bank
 Bldg.
 Kirk & Blum, York and Western Sts.

Kreimer & Bro. Co., 9th and Carr Sts.
Lunkenheimer Co., Beekman and
Waverly Sts.

Lynn Superior Co., 3250 Spring Grove
Ave.

Macleod Co., 2232 Bogen St.

Mitchell Co., P. R., 3859 Clifton Ave.

Neil & Smith Electric Tool Co., 120-
122 E. 6th St.

Obermayer Co., S., 647 Evans St.

Powell Co., The Wm., 2521 Spring
Grove Ave.

Queen City Exhaust Blow Pipe Co.,
423 York St.

Reedy Co., H. J.

Standard Electric Tool Co.

Taylor Sons Co., Chas.

Triumph Ice Machine Co.

Tudor Boiler Mfg. Co., 715 E. 3d St.

Van Dusen Co., E. W., 1428 E. 2d St.

Vulcan Copper Works Co., 122 Sycamore
St.

Warner Elevator Mfg. Co.

Williams Valve Co.

Wocher & Son, Max, Cor. 9th and 6th
Aves.

Ohio, Cleveland

Aluminum Castings Co., 6205 Carnegie
Ave.

American Shipbuilding Co., Wash-
ington and Elm Aves.

Anderson Co., V. D., W. 96th St.

Atlas Car & Mfg. Co., Ivanhoe Road

Austin Powder Co., Rockefeller Bldg.

Bartlett & Snow Co., C. O., French
and Winter Sts.

Bishop, Babcock, Becker Co., The,
49th and Hamilton Sts.

Bullock Mfg. Co., T. H., 1577 Colum-
bus Road

Brown Hoisting Machinery Co., 4403
St. Clair St.

Buckeye Brass & Mfg. Co., 1807 Col-
umbus Road

Case Hardening Service Co.

Central Brass Mfg. Co., 6203 Cedar
Ave.

Cleveland Blow Pipe & Mfg. Co.

Cleveland Brass Mfg. Co., 4606-4626
Hamilton Ave., N. E.

Cleveland Machine Tool Works, 3213-
3225 Superior Ave.

Cleveland Rubber Co., Lisbon Road

Cleveland Steel Barrel Co.

Cleveland Store Fixture Co.

Cleveland Twist Drill Co.

Cleveland Wire Spring Co.

Cleveland Pneumatic Tool Co., 6410
Hawthorne Ave.

Consumers Rubber Co., 829 Superior
Ave.

Cummer & Son Co., F. D., 413 The
Arcade

Dangler Stove Co., 5017 Perkins Ave.
Dyer Co., 2033 Euclid Ave.

Electric Controller & Mfg. Co., 2700
E. 79th St.

Elwell Parker Electric Co.

Electric Products Co., 10514 Dupont
Ave., N. E.

Euclid Glass Division National Lamp
Works, of General Electric Co.

Eureka Machine Co., 2610 Vega Ave.

Fanner Mfg. Co., W., 25th West of
Brooklyn Bridge

Gas Machinery Co., 1900 Euclid Ave.

Globe Machine & Stamping Co.

Harshaw Fuller & Goodwin Co., Elec-
tric Bldg.

Hill Clutch Co.

Kilby Mfg. Co., 4623 Lakeside Ave.

Lakewood Engineering Co., Berea Rd.

Lennox Chemical Co., The, 1201 E.
55th St.

Lincoln Electric Co.

Lindsay Wire Weaving Co., 14025 As-
pinwall Ave.

Loew Mfg. Co., 9001 Madison Ave.,
N. W.

Lucas Machine Tool Co., E., E. 99th
St. and N. Y. C. R. R.

Mechanical Rubber Co.

Meriam Co., 1514 Prospect Ave., S. E.

Monarch Brass Co., 4607 Payne Ave.

National Carbon Co., Madison and
Highland Aves.

National Refining Co., Rose Bldg.

National Smelting Co., 6800 Grant Ave
Ohio Blower Co.

Ohio Chemical & Mfg. Co., 1199 Mar-
quette at L. S. & M. S. Railway

Osborn Mfg. Co., 5401 Hamilton Ave.,
N. E.

Phoenix Ice Machine Co., 2711 Church
Ave.

Russ Co., 5700 Walworth Ave.

Sawyer Belting Co.

Standard Sand & Machine Co.

Standard Tool Co.

Standard Welding Co., W. 73d St. and
N. Y. C. Tracks

Strong, Carlisle & Hammond Co., 336
Frankfort St., N. W.

Steel Improvement & Forge Co., 5000
Winsor Ave.

Steel Products Co.

Stowe Fuller Co.

Strong, Carlisle & Hammond Co.

Tyler Co., W. S., Superior Ave. and
36th St.

Union Engineering Co., 1616 Colum-
bus Road

Union Paper & Twine Co., 127 St. Clair
Ave., N. W.

United States Air Compressor Co.,
6526 Carnegie Ave.

- Van Dorn Electric Tool Co.
 Van Dorn Iron Works Co.
 Vitreous Enameling Co., Grant Ave.
 near 71st St., S. E.
 Warner & Swasey Co.
 Wellman-Seaver-Morgan Co., 7000
 Central Ave.
Ohio, Columbiana
 Columbiana Boiler Co.
Ohio, Columbus
 Jeffrey Mfg. Co., 904 N. 4th St.
 Kilbourne & Jacobs Mfg. Co.
 Ralston Steel Car Co.
 Rudolph, Philip J., 190 W. 1st Ave.
Ohio, Conneaut
 Conneaut Can Co.
Ohio, Dayton
 Barney & Smith Car Co.
 Buckeye Boiler Co., 1617 McLain St.
 Buckeye Iron & Brass Works
 Electro Chemical Co., 111 W. Court
 St.
 International Clay Machinery Co.
 Platt Iron Works Co.
 Reynolds & Reynolds Co., The
 Smith Gas Engineering Co.
Ohio, Defiance
 American Steel Package Co.
 Defiance Box & Coop Co.
Ohio, Delphus
 Delphus Co.
Ohio, East Akron
 Knight, Maurice A.
Ohio, East Liverpool
 Patterson Foundry & Machine Co.
Ohio, Elyria
 Elyria Enameled Products Co.
Ohio, Fostoria
 Fostoria Glass Specialty Co.
Ohio, Fremont
 Christy Knife Co.
 Simple Account Sales Book Co.
Ohio, Hamilton
 Black-Clawson Co.
 Hamilton Copper & Brass Works
 Long & Alstatter Co.
Ohio, Kent
 Falls Rivet Co.
Ohio, Leetonia
 Leetonia Boiler Co., Kunkel Bldg.
Ohio, Lexington
 Smith Gas Engineering Co.
Ohio, Lockland
 Carey Mfg. Co., Philip
 Fox Paper Co.
 Gedge Gray Co.
Ohio, Logan
 Logan Pottery Co.
Ohio, Mansfield
 Phoenix Electric Co.
- Ohio, Marion*
 Marion Steam Shovel Co.
 Osgood Co.
Ohio, Middletown
 American Rolling Mill Co.
 Wrenn Paper Co.
Ohio, Mt. Gilead
 Hydraulic Press Mfg. Co., The
Ohio, Mt. Vernon
 Chapman Engineering Co.
 Hope Engineering & Supply Co.
 Hydraulic Press Mfg. Co.
Ohio, Nelsonville
 Nelsonville Foundry & Machine Co.
Ohio, Newark
 Heisey & Co., Inc., A. H.
Ohio, New Lexington
 Star Mfg. Co.
Ohio, New London
 Arnold-Creager Co.
Ohio, Niles
 Standard Boiler & Plate Iron Co.
 Stevens Metal Products Co.
Ohio, Oak Hill
 Pyro Clay Products Co.
Ohio, Piqua
 Piqua Blower Co., 810 S. Downing St.
Ohio, Plymouth
 Fate Co., J. D.
Ohio, Salem
 Deming Co.
Ohio, Sandusky
 American Crayon Co.
 Sandusky Foundry & Machine Co.
Ohio, Sebring
 Limoges China Co.
Ohio, Shelby
 Ohio Seamless Tube Co.
Ohio, Sidney
 Sidney Elevator Mfg. Co.
Ohio, Springfield
 Bauer Bros. Co.
 Lagonda Mfg. Co., 1809 Sheridan Ave.
 Robbins & Myers Co.
 Ridgely Trimmer Co.
 Safety Emery Wheel Co.
Ohio, Steubenville
 Gill Bros. Co.
Ohio, Tiffin
 Webster Mfg. Co.
Ohio, Toledo
 Beckman Co., L., 318 Adams St.
 Gendron Wheel Co.
 Gogel Mfg. Co.
 Haughton Elevator & Machine Co.
 Kent-Owens Machine Co.
 Libbey Glass Co.
 Ophthalmoscope Co.
 Owens Bottle Machine Co.
 Toledo Drill & Tool Co.
 Toledo Scale Co.
 Toledo Steel Barrel Co.

- Ohio, Urbana*
Desmond-Stephen Mfg. Co.
- Ohio, Wadsworth*
Ohio Injector Co.
- Ohio, Warren*
Warren Tank & Boiler Co.
- Ohio, Youngstown*
General Fireproofing Co.
Republic Iron & Steel Co.
Republic Rubber Co.
Tod Co., Wm.
Wagenhorst & Co., J. H., 704 Dollar Bank Bldg.
Youngstown Engineering Co.
Youngstown Pressed Steel Co.
Youngstown Sheet & Tube Co.
- Ohio, Zanesville*
Ohio Pottery Co.
- Oregon, Portland*
Harris Ice Machine Works, Inc., 174 E. Water St.
Leupold & Voelpel, 501 Phoenix Bldg.
National Tank & Pipe Co., 275 Oak St.
North West Blow Pipe Co.
Woodward, Clark & Co.
- Pa., Allentown*
Allentown Flint Bottle Co.
Garnet Co., Geo. H.
Traylor Engineering & Mfg. Co.
- Pa., Ambler*
Keasby & Mattison
- Pa., Bangor*
Bangor National Slate Co.
Bangor Slate Mfg. & Supply Co.
Flory Mfg. Co., S.
Hammann Slate Co.
- Pa., Beaver Falls*
Keystone Driller Co.
Union Drawn Steel Co.
- Pa., Bethlehem*
Bethlehem Steel Co.
- Pa., Berwyn*
American Bronze Co.
- Pa., Braddock*
Braddock Steel Co.
Consolidated Expanded Metal Companies
- Pa., Braeburn*
Braeburn Steel Co.
- Pa., Bridgeport*
Diamond State Fibre Co.
Harvey Hubbell, Inc., State St. and Bostwick Ave.
Summerill Tubing Co.
- Pa., Brockenridge*
Allegheny Steel Co.
- Pa., Canonsburg*
Standard Tin Plate Co.
- Pa., Carbondale*
American Welding Co.
*Carbondale Calcium Co.
Carbondale Instrument Co.
Carbondale Machine Co.
- Cross Engineering Co.
Griebel Instrument Co.
Hendrick Mfg. Co., 39-75 Dundaff St.
- Pa., Catasauqua*
Lehigh Car, Wheel & Axle Works
- Pa., Chester*
Chester Steel Castings Co.
Wetherill & Co., Inc., Robert
Wirz, Inc., A. H.
- Pa., Coatesville*
Coatesville Boiler Works
Lukens Iron & Steel Co.
Ridgway & Son Co., Craig
- Pa., Connellsville*
Riverside Metal Refining Co.
- Pa., Conshohocken*
Wood Mfg. Co., John
- Pa., Corry*
Trill Indicator Co.
- Pa., Curwensville*
Crescent Refractories Co.
- Pa., Darby*
Roberts Filter Mfg. Co.
- Pa., Du Bois*
Vulcan Soot Cleaner Co.
- Pa., Easton*
American Slate Co.
Easton Cart Construction Co., 200 4th St.
Pluto Powder Co.
- Pa., East Bangor*
East Bangor Consolidated Slate Co.
- Pa., East Downingtown*
Downingtown Mfg. Co.
- Pa., East Pittsburgh*
Westinghouse Electric & Mfg. Co.
- Pa., Ellwood City*
Mathews Gravity Carrier Co.
- Pa., Emporium*
Cameron Powder Mfg. Co.
Keystone National Powder Co.
- Pa., Erie*
Advance Mfg. Co.
American Sterilizer Co.
Continental Rubber Works
Erie-Buffalo Tube Co., 1227 W. 18th St.
Erie Car Works, 17th and Raspberry Sts.
Erie City Mfg. Co.
Erie Foundry Co.
Erie Iron Works
Exhibition Show Case Co.
Hays Mfg. Co.
Jarecki Mfg. Co.
Watson Co., H. F.
Williams Co., G. H.
- Pa., Franklin*
Colburn Machine Tool Co.
Franklin Mfg. Co.
- Pa., Fullerton*
Fuller-Lehigh Co.

- Pa., Greensburg*
 Kelly & Jones Co.
 Memphis Steel Construction Co.
Pa., Hamburg, Berks Co.
 Hamburg Boiler Works
Pa., Harrisburg
 Jackson Mfg. Co.
Pa., Hollidaysburg
 McLanahan-Stone Machine Co.
Pa., Homestead
 Homestead Valve Mfg. Co.
 Lawson Mfg. Co.
Pa., Jeannette
 Jeannette Glass Co.
 Pennsylvania Rubber Co.
Pa., Johnstown
 Hodges Water Supply Co.
Pa., Johnstown
 Lorain Steel Co.
Pa., Koppel
 Orenstein-Arthur Koppel Co.
Pa., Lancaster
 Mirco Fuel Oil Equipment Co.
Pa., Macungie
 Macungie Brass & Mfg. Co.
Pa., Malvern
 Bishop & Co., J., Platinum Works
Pa., Manheim
 Hershey Machine & Foundry Co.
Pa., Mechanicsburg
 The Scientific Instrument & Electrical Machine Co.
Pa., Midland
 Treadwell Construction Co.
Pa., Milton
 Milton Mfg. Co.
Pa., Monaca
 Pittsburgh Tool Steel Wire Co.
Pa., Muncy
 Sprout, Waldron & Co.
Pa., New Brighton
 Sherwood Bros. Co.
 Standard Specialty & Tube Co.
Pa., New Castle
 Penn Engineering Works
Pa., Oil City
 Pennsylvania Cooperage Co.
 Reid Gas Engine Co., Joseph
Pa., Philadelphia
 Abrasive Co., Bridesburg
 Albro-Clem Elevator Co., 7th St. and Glenwood Ave.
 Ajax Metal Co., 48 Richmond St.
 Alexander Bros., 414 N. 3d St.
 American Insulating Machinery Co., Inc., Fairhill and Huntingdon Sts.
 American Manganese Bronze Co., Rhawn and Hegeman Sts.
 American Pulley Co. 4200 Wissahickon Ave.
 American Water Softener Co., 10th and Chestnut Sts.
 Baldwin Locomotive Works
 Baeuerle & Morris, 932 N. Front St.
 Barber Asphalt Paving Co., Land Title Bldg.
 Beaumont Co., R. H., Drexel Bldg.
 Belfield Co., H., 435 N. Broad St.
 Berger Bros. Co., 231 Arch St.
 Bernstein Mfg. Co., 3d and Allegheny Ave.
 *Biddle, James G., 1211-13 Arch St.
 Blair, Campbell & McLean, Inc., Colonial Trust Bldg.
 *Boekel & Co., Wm., 516-518 Vine St.
 Bond Co., Charles
 Braemer Air Conditioning Co., Lafayette Bldg.
 Brauer & Son, J., 129 Arch St.
 Brill Co., J. G., 62d St. and Woodland Ave.
 Brown Instrument Co., Wayne and Roberts Aves.
 *Burk & Co., Wm. B., 534 Arch St.
 Butterworth & Sons Co., H. W., 2415 E. York St.
 Caloris Co., 2110 Allegheny Ave.
 Cambria Steel Co., Widener Bldg.
 Challenge Machine Co., Inc., 5118 Springfield Ave.
 Chambers Bros. Co., 52d and Media Sts.
 C. J. Mfg. Co., 3421 N. 5th St.
 Clarke Can Co., 12th and Fitzwater Sts.
 Covell Belting Co.
 Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts.
 Cresson-Morris Co., 18th and Allegheny Ave.
 Darby & Sons Co., Inc., Edward, 233-235 Arch St.
 *Dean, J. Atlee, 5420 Baltimore Ave.
 Dienelt & Eisenhardt, Inc., 1304 N. Howard St.
 D'Olier Centrifugal Pump & Machine Co., Morris Bldg.
 Drueding Bros. Co., 5th and Master Sts.
 Duemier, G. Frank, 837 Sanger St.
 Electric Service Supplies Co., 17th and Cambria St.
 Electric Storage Battery Co., Allegheny Ave. and 19th St.
 Electric Tachometer Corp., Perry Bldg.
 Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
 Endura Mfg. Co., 63d St. and Eastwick Ave.
 Enterprise Mfg. Co.
 Espen-Lucas Machine Works, Front St. and Girard Ave.
 Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
 Fairmount Glass Works, 828 N. 23d St.

Faltermayer Bros., 2741 Germantown Ave.
 Feidt & Co., Geo. D., 230 S. 7th St.
 Fletcher Works
 Foote Mineral Co., Inc., 109 N. 19th St.
 Fox & Sons, Inc., H. C., Schuylkill Ave. and Catherine St.
 French & Co., Sam'l H., 4th and Cal-lowhill Sts.
 Gefever & Son, Inc., G.
 General Scientific Equipment Co., 2000 Market St.
 Gillinder & Sons, Tacony and Devereaux Sts.
 Globe Automatic Sprinkler Co., 2035 Washington Ave.
 Green & Sons, Robert M., 1413 Vine St.
 Greene Paper Co., 5014 Market St.
 Hagstoz & Son, T. B., 709 Sansom St.
 Haines, Jones & Cadbury Co., 1136 Ridge St.
 Hand & Sons Co., John E., 224 Walnut St.
 Harrison Safety Boiler Works, 17th and Allegheny Sts.
 Harrison Works, 35th and Grays Ferry Road
 Haslett Spiral Chute Co., 1937 W. Tioga St.
 Hero Mfg. Co.,
 Hess-Bright Mfg. Co., Front St.
 Himmelein & Bailey, 248 Chestnut St.
 Hoeker Co., G. R., 1840 S. Camac St.
 Hodges Water Still Co., Pennsylvania Bldg.
 Houghton & Co., 240 W. Somerset St.
 Hydro Mfg. Co., 320 Bullitt Bldg.
 Ivins Tube Works, Ellwood, Oak Lane Station
 Janney, Steinmetz Co.
 Jessup & Moore Paper Co., 28 S. 6th St.
 Kestner Evaporator Co., 18th St. and Allegheny Ave.
 Keystone Emery Mills, 4329 Paul St.
 Klemm & Co., 132 N. 5th St.
 Kutztown Foundry & Machine Co., Morris Bldg.
 Large-Dail Mfg. Co., 114 N. 13th St.
 Lavino & Co., E. J., Bullitt Bldg.
 Leeds & Northrup Co., 4901 Stenton Ave.
 Levick & Sons Co., 106 S. 13th St.
 Logan Iron & Steel Co., Morris Bldg.
 Loneragan Co., J. E., 211 Race St.
 Loomis-Manning Filter Mfg. Co., 1421-1455 S. 37th St.
 Lupton & Sons Co., David
 Main Belting Co.
 Maris & Co., J. M.

Merchant & Evans Co., 2019-2035 Washington Ave.
 Messer Mfg. Co., 121 N. 7th St.
 Monarch Mfg. Works, 3129 Emery St.
 Moore & White Co.,
 North American Smelting Co., 9th and Thompson Sts.
 Oat & Sons, Jos., 230 Quarry St.
 Oil & Waste Saving Machine Co., 1509 Real Estate Trust Bldg.
 Olsen Testing Machine Co., Tinius, 500 N. 12th St.
 Ott, Geo. F., 209 Buttonwood St.
 Otto Engine Mfg. Co., S. 33d and Walnut Sts.
 Pancoast Co., Henry B., 243-245 S. 3d St.
 Parker Co., F. T., 232 Chestnut St.
 Paxson Co., J. W., 1021 N. Delaware Ave.
 Pennsylvania Crusher Co., Stephen Girard Bldg.
 Pennsylvania Flexible Metallic Tubing Co., N. E. Cor. Broad and Race Sts.
 Pennsylvania Salt Mfg. Co., Widener Bldg.
 Pennsylvania Steel Co.
 Pennsylvania Wire Glass Co., 915 Penn Bldg.
 Philadelphia Drying Machinery Co., 6721 Germantown Ave.
 Philadelphia Pipe Bending Co.
 Philadelphia Roll & Machine Co., S. 23d and Washington Ave.
 Philadelphia Textile Machinery Co., Sixth St. and Tabor Road
 Philadelphia Thermometer Co., 9th and Arch Sts.
 Philadelphia Tramrail Co., Front and Tusculum Sts.
 Phoenix Iron Co.
 Platinum Metals Co.
 Porter & Co., C. B., 128 N. 2d St.
 Precision Thermometer & Instrument Co., 1434 Brandywine St.
 Quaker City Rubber Co., 629 Market St.
 Queen-Gray Co., Inc., 618 Chestnut St.
 Quimby Engineering Co., 450 N. 10th St.
 Remmers & Sons, B., Bourse Bldg.
 Remney Son Co., Richard C., Hedley and Delaware River Bldg.
 Rhoades & Sons, J. E., 12 N. 3d St.
 Riehle Bros. Testing Machine Co., 1424 N. 9th St.
 Roentgen Mfg. Co., 1210 Race St.
 Ross-Tacony Crucible Co., Robbins and Mulner Sts.
 Rue Mfg. Co., 228 Cherry St.

- Savill's Sons, Thos., 1310 Wallace St.
 Schaum & Uhriger, Inc., Cor. Glenwood Ave. and 2d St.
 Schautte & Koerting Co., 12th and Thompson Sts.
 Seidel Inc., R. B., 1322 Callowhill St.
 Sellers & Co., Inc., Wm., 1600 Hamilton St.
 Sharpless Specialty Co.
 Smith, Kline & French Co.
 Southwark Foundry & Machine Co.
 Sowers Mfg. Co.
 Specialty Engineering Co., Allegheny and Trenton Aves.
 Standard Roller Bearing Co., 30th St. and Lancaster Ave.
 Steele Glass Co., 622 Locust St.
 Stokes Machine Co., F. J., 17th and Cambria Sts.
 Supplee-Biddle Hardware Co., 507 Commerce St.
 Taylor, Inc., Robert J., 19th and Callowhill Sts.
 *Thomas Co., Arthur H., 238 W. Washington Square
 Thomson-Levering Co., 323 Arch St.
 Thwing Instrument Co., 3339 Lancaster Ave.
 Tilgham-Brooksbank Sand Blast Co.
 Troemmer, Henry, 911 Arch St.
 Uniflow Boiler Co., Inc., 2 S. 15th St.
 United Gas Improvement Co., 1514 S. Broad St.
 Watts Sons, John M., 54 N. 2d St.
 Wheeler Co., C. H.
 Wheeler Mfg. Co., C. H.
 Whitall-Tatum Co., 410 Race St.
 Williams-Brown & Earle, 918 Chestnut St.
 Wirt Electric Specialty Co., Armat and Lena Sts.
 Wood & Co., R. D., 400 Chestnut St.
 Woolford Wood Tank Mfg. Co., 1429 Chestnut St.
 Wyeth & Bro., J., Inc., 11th and Washington Ave.
Pa., Pittsburgh
 Aluminum Co. of America, Oliver Bldg.
 American Sheet & Tin Plate Co., Frick Bldg.
 Armstrong Cork Co.
 Armstrong Cork & Insulation Co., 122 24th St.
 Asbestos Protected Metal Co., 1st National Bank Bldg.
 Bachrach Industrial Instrument Co., 422 1st Ave.
 Bailey Reflector Co., 514 1st Ave.
 Basic Products Co., 2119 Oliver Bldg.
 Bonar & Co., James, 502 Park Bldg.
 Cadman Mfg. Co., A. W., 2814-2816 Smallman St.
 Carbo-Hydrogen Co.
 Carbon Steel Co.
 Carnegie Steel Co.
 Clark Car Co., Oliver Bldg.
 Coal & Coke By-Products Co., 421 Wood St.
 *Colonial Supply Co., 217 Water St.
 Crucible Steel Co. of America, 30th and Smallman Sts.
 Damascus Bronze Co., 928 South St.
 Doubleday-Hill Electric Co., 721 Liberty Ave.
 Draeger Oxygen Apparatus Co., 422 1st Ave.
 Duquesne Steel Co.
 Edgewater Steel Co.
 Eichleay Co., John Jr., S. 20th and Wharton Ave.
 Elliott Co., 6915 Susquehanna St.
 Elliott Co., B. K., 130 6th St.
 Epping-Carpenter Pump Co., 43d St. and Allegheny R. R.
 Garrison Foundry Co., 901 Bingham St.
 Gem Mfg. Co., 1229-1243 Goebel St., N. S.
 Gibbs Instrument Co., Highland Bldg.
 Gulf Refining Co., Frick Bldg.
 Gwynn Gas Burner & Engineering Co., 713-714 Empire Bldg.
 Hagan Co., George J., 401 Peoples Bank Bldg.
 Hamilton, J. F. & A.
 Harbison-Walker Refractories Co., Farmers Bank Bldg.
 Homestead Valve Mfg. Co., P. O. Box 1754
 Hunter Saw & Machine Co., 57th and Butler Sts.
 Jones & Laughlin Steel Co.
 Keytson Bronze Co., 39th and A. V. R. R.
 Keystone Elec. Telephone Co., 614 Smithfield Ave.
 Koppers Co., H., Union Ave.
 Lawrenceville Bronze Co., 3036 Penn Ave.
 Liberty Mfg. Co., 6907 Susquehanna St.
 Macbeth-Evans Glass Co.
 Mackintosh, Hemphill & Co., 12th and Etna Sts.
 Marshall Foundry Co., 28th and Railroad
 McCullough-Dalzell Crucible Co.
 McLean Co.
 Monroe & Sons Mfg. Corp., 23d and Smallman Sts.
 National Fire Proofing Co., Fulton Bldg.
 National Tube Co., 1902 Frick Bldg.
 Ohio Well Supply Co.

- Oliver Iron & Steel Co., S. 10th and Muriel Ave.
 Pittsburgh Can Co.
 Pittsburgh Coal Washer Co., 812 Fulton Bldg.
 Pittsburgh Crushed Steel Co., 61st St. and A. V. Ry.
 Pittsburgh Filter Mfg. Co.
 Pittsburgh Gage & Supply Co.
 Pittsburgh Iron Works Co., 4700 2d St.
 Pittsburgh Steel Co., Frick Bldg.
 Pittsburgh Steel Products Co.
 Pittsburgh Thermoline Co., S. 20th and Wharton Sts.
 Pittsburgh Valve, Foundry & Const. Co.
 Pressed Steel Car Co., Farmer's Bank Bldg.
 Republic Chemical Co., Neville Island
 Rosedale Foundry & Machine Co., Columbus and Preble Ave., North Side
 Rudd Mfg. Co.
 Ruemmeli Dawley Mfg. Co., 3911 Chouteau Ave.
 Rust Engineering Co., Keenan Bldg.
 Sauer Power Generating Co., 5115-5119 Rosetta St.
 Scaife & Sons Co., Wm. B., 21 1st Ave.
 Scientific Materials Co., 711-719 Forbes St.
 Standard Sanitary Mfg. Co.
 Standard Scale & Supply Co., 1631 Liberty Ave.
 Sterritt-Thomas Foundry Co., 32d and Smallman Sts.
 Summers Steel Car Co., Oliver Bldg.
 Tafe, Jones & Co., Inc., Empire Bldg.
 Union Steel Castings Co.
 United Engineering & Foundry Co., Farmer's Bank Bldg.
 U. S. Glass Co., S., 9th and Bingham Aves.
 U. S. Steel Corp.
 Vanadium Metal Co., Vanadium Bldg.
 Westinghouse Air Brake Co.
 Williams & Co.
Pa., Pittston
 Delahunty Dyeing Machine Co.
Pa., Pottstown
 Glasgow Iron Co.
 Wilbraham-Green Blower Co.
Pa., Pottsville
 Eastern Steel Co.
Pa., Reading
 Carpenter Steel Co.
 Columbia Cutlery Co.
 Hettinger, E. L., 2d and Washington Sts.
 Reading Iron Co.
 Reading Steel Foundry Co.
 Textile Machine Works
 Willson & Co., T. A.
Pa., Ridgway
 Ridgway Dynamo & Engine Co.
Pa., Rochester
 Fry Glass Co., H. C.
 Pittsburgh Grinding Wheel Co.
Pa., Schuylkill Haven
 Rowland, Samuel
Pa., Scottdale
 Electric Water Sterilizer Co.
Pa., Scranton
 Black Horn Sales Co.
 Everhart Brass Works
 McClave-Brooks Co.
 Technical Supply Co.
Pa., Sharon
 Pennsylvania Tank Car Co.
 Petroleum Iron Works Co.
 Pressed Steel Products Co.
 Sharon Foundry Co.
Pa., Slatington
 Genuine Washington Slate Co.
 Monarch Black Board & Structural Slate Co.
 Provident Slate Co.
Pa., South Bethlehem
 Bethlehem Foundry & Machine Co.
 Bethlehem Steel Co.
Pa., Tamaqua
 Tamaqua Mfg. Co.
Pa., Titusville
 Titusville Iron Co.
Pa., Valley Forge
 Ehret Magnesia Mfg. Co.
Pa., Warren
 Hammond Iron Works
 Struthers-Wells Co.
 Warren City Tank & Boiler Works
Pa., Washington
 Highland Glass Co.
Pa., Warrnesboro
 Frick Co., Inc.
 Landis Tool Co.
Pa., West Chester
 Sharples Separator Co.
 Sharpless Specialty Co., The
Pa., Wilkes-Barre
 Hazard Mfg. Co.
 Vulcan Iron Works
Pa., Williamsport
 Darling Pump & Mfg. Co., Ltd.
 Keeler Co., E., 238 West St.
 Maryland Flint Co.
 Valley Iron Works
Pa., York
 Foreman Systems
 Pullman Ventilator Corp.
 Ruggles-Coles Engineering Co.
 Steacy-Schmidt Mfg. Co.
 York Electric & Machine Co., 30-34 N. Penn St.
 York Mfg. Co.

- R. I., Bristol*
National India Rubber Co.
- R. I., Providence*
American Emery Wheel Co.
Brown & Sharp Mfg. Co.
Builders Iron Foundry
Clason Architectural Metal Works,
Inc., 428 Kinsley St.
Davol Rubber Co.
D. & W. Fuse Co.
General Fire Extinguisher Co., 275 W.
Exchange St.
Hill Mfg. Co., James
Household Cabinet Works
Ideal Ventilator Co., 99 Stewart St.
Narragansett Machine Co.
National Gas Furnace Co.
New England Butt Co.
New England Ventilating & Heating
Co., 926 Manton Ave.
Salisbury Mfg. Co.
Textile Finishing Machinery Co., 81
Exchange Pl.
Tillotson Humidifier Co.
U. S. Gas Furnace Co.
Wall Co., A. T., 162 Clifford St.
- Scotland, Glasgow*
Blair, Campbell & McLean, Ltd.,
Woodville St., Govan
- S. C., Charleston*
Valk & Murdoch Co.
- Tenn., Chattanooga*
American Lava Co.
Chattanooga Wheelbarrow Co.
Frictionless Metal Co.
- Tenn., Jackson*
Jackson Fire Brick Co.
- Tenn., Knoxville*
Oliver Mfg. Co., Wm. J.
Savage Co., W. J.
- Tenn., Memphis*
Memphis Blow Pipe Co.
- Tenn., Nashville*
Harris Municipal Garbage Incinerator
& Steam Generator Co., 65 Life and
Casualty Bldg.
Phillips & Butteroff Mfg. Co.
- Tex., Dallas*
Murray Co.
- Tex., Houston*
Shannon, G. S.
- Utah, Salt Lake City*
Filter Fabrics Co., The, Felt Bldg.
Keller Mfg. Co., G. P.
Kelly Filter Press Co.
Salt Lake Hardware Co.
United Filters Corp.
Utah Fire Clay Co.
- Vt., Bellows Falls*
Vermont Farm Machinery Co.
- Vt., Burlington*
Champlain Mfg. Co.
- Vt., Montpelier*
U. S. Clothes Pin Co.
- Vt., Wells River*
Adams Paper Co.
- Va., Lynchburg*
Lynchburg Foundry Co.
- Va., Richmond*
Albemarle Paper Mfg. Co.
Parker & Son Co., Joseph
Richmond Engineering Co., 12 S. 8th
St.
Standard Paper Mfg. Co.
Tredagar Co.
- Wash., Everett*
Everett Pulp & Paper Co.
- Wash., Seattle*
Continental Pipe Mfg. Co.
Denny-Renton Clay & Coal Co.
Seattle-Astoria Iron Works, 601 Myr-
tle St.
Seattle Brass Co.
Seattle Car & Foundry Co., Alaska
Bldg.
- Wash., Spokane*
Armstrong Machinery Co., 3201-3219
E. Riverside St.
*Fawcett Co., C. M.
- Wash., Tacoma*
Far West Clay Co., 224-228 Tacoma
Bldg
Williams, C. W.
- W. Va., Fairmont*
Fairmont Mining Machinery Co.
- W. Va., Grafton*
Hefner & Maysilles
- W. Va., Morgantown*
Union Stopper Co.
- W. Va., Wheeling*
Central Glass Co.
Williams' Improved Stretcher Co.,
1202-04 Water St.
- Wis., Appleton*
Combined Locks Paper Co.
Valley Iron Works Co.
- Wis., Ashland*
Bretting Mfg. Co., C. G.
- Wis., Cudahy*
Power & Mining Machinery Co.
- Wis., Grand Rapids*
American Carbonic Machinery Co.
- Wis., Jamesville*
Franklin, Taylor Co.
- Wis., Kewaunee*
Kewaunee Mfg. Co.
- Wis., Kohler*
Kohler Co.
- Wis., LaCrosse*
Benton Electric Co.
- Wis., Madison*
Gisholt Machine Co.
Northern Water Softener Co.
- Wis., Manitowoc*
Manitowoc Aluminum Co.

- Manitowoc Boiler Works
 Manitowoc Engineering Works
Wis., Marinette
 Marinette & Menominee Box Co.
Wis., Milwaukee
 • Allis-Chalmers Mfg. Co.
 American Machinery & Construction Co.
 Chain Belt Co., 734 Park St.
 Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.
 Davis Mfg. Co., 57th Ave. and Mitchell St.
 Dings Magnetic Separator Co., 333 South St.
 Dravo Co., 1195 30th St.
 Erwin Mfg. Co.
 Geuder, Paeschke & Frey Co.
 Industrial Controller Co., 900 Greenbush St.
 Johnson Service Co., 153 Michigan Ave.
 Kearney & Trecker Co.
 Kerner Incinerator Co.
 Kramer Oil Co., W. J.
 Magnetic Mfg. Co., 764 Windlake Ave.
 Mechanical Appliance Co.
 Milwaukee Bag Co., 206 S. Water St.
 Milwaukee Boiler Co., 220 Oregon St.
 Milwaukee Concrete Mixer Co.
 Milwaukee Locomotive Mfg. Co.
 National Brake & Electric Co.
 Norberg Mfg. Co.
 Nortmann Duffke Fdy. Co., 1210 27th Ave.
 Pawling & Harnischfeger Co.
 Pressed Steel Tank Co.
 Richardson-Phoenix Co., 126 Reservoir Ave.
 Sommers & Sons Co., Galena and 31st Sts.
 Twentieth Century Machinery Co., M. & M. Bank Bldg.
 Vilter Mfg. Co., 824 Clinton St.
 Voss Co., Herman, 603 E. Water St.
 Wisconsin Bridge & Iron Co.
 Wisconsin Foundry Co., 1138 32d St.
Wis., Oshkosh
 Ransom Mfg. Co.
Wis., Racine
 Phoenix Automatic Filter Co.
Wis., South Milwaukee
 Bucyrus Co.
Wis., Superior
 Superior Iron Works Co.
Wis., Two Rivers
 Hamilton Mfg. Co.
Wis., Watertown
 Dornfield Iron Works
Wis., Wausau
 Wausau Abrasives Co.

V. INDUSTRIAL CHEMISTS AND CHEMICAL ENGINEERS

I. ANALYTICAL AND CONSULTING CHEMISTS

Ala., Birmingham

Hancock, David, 3d floor Potter Bldg.
Fuels, metallurgy
Picard Laboratories, 1911 1st Ave.
Fuels, cottonseed products, fertilizers, metallurgy
Pittsburgh Testing Laboratory, 216 Clark Bldg.

Ala., Montgomery

Battle Laboratory, 103 S. Court St.
Burke, J. D., 28 N. Court St.

Ariz., Tucson

Brinton, Paul H. M-P. Metallurgy

Ark., Fort Smith

Industrial Laboratories, Inc. Wood by-products; manganese (chloride, dioxide, sulphate)

Cal., Berkeley

Clark, Guy W., 1148 Sutter St. Meats, oils
Cruess, Wm. V., F. C. L. Bldg
Cutter Laboratory, Inc., 6th St.

Cal., Los Angeles

Atkinson & McRae, 1008 S. Hill St
Baverstock & Payne, 223 W. 1st St
Foods, medicines, oils, metallurgy
Boyce, W. J., 1326 W. 41st St. Metallurgy
Gooch, G. W., 322-23 Copp Bldg.
Fertilizers, soils
Herman, John, 514 S. Los Angeles St.
Johnson, Edward E., 506 Pacific Bldg
Clinical diagnosis
Los Angeles X-Ray Laboratories, 307 S. Hill St., Room 800
Maas, A. R., 308 E. 8th St.
Pacific Wassermann Laboratories, Medical
Parks, E. L., 206 Story Bldg.
Perez, R. A., 120 N. Main St. Metallurgy
Smith Emery Co., 245 S. Los Angeles Ave.
Snowden, R. R., 320 Stimson Bldg.
Agricultural
Tartarian & Pratt, First and Main Sts.
Walker, Mark, Wesley Roberts Bldg.
Metallurgy
Wassermann Pacific Laboratories, 1012 Hollingsworth Bldg.
Wrana, King & Co., Inc., 822 E. 3d St.

Cal., Oakland

Benzinger, Richard, 1314 Market St.
Dugan, H. F., 715 50th Ave.
Gibson, Walter L., 824 Washington St.
Pacific Wassermann Laboratory, 1225 Washington St.
Western Laboratories, 24th and Broadway

Cal., San Francisco

Beckman & Linden Eng. Corp., Balboa Bldg.
Best, Otto, 593 Market St
Butler Cereal Laboratories, 149 Cal. St.
Crosscup, I. O., 24 California Ave.
Curtis & Tompkins, 331 California St.
Drake, Bryant S., 501 Nevada Bank Bldg.
Dugan, H. F., 1170 Sutter Ave.
Eaton Laboratories, 340 Sansome St.
Flint, J. H., 344 14th St.
Forbes Chemical Co., 43 St. Anne St.
Glebovitch, A., 53 Stevenson St.
Gould & Ash, 216 Pine St.
Green, F. T., 500 Devisadero St.
Hamilton, Beauchamp Woodworth, 419 The Embarcadero
Hanks, A. A., 630 Sacramento St.
Heinrich, Edward O., 2682 Union St.
Jurisprudence
Hunt & Co., R. W., 251 Kearny St.
Herb, Joseph, 3866 19th St. Pharmaceutical
James, G. A., 28 Belden Pl.
Kawin Co., Chas. C., 693 Mission St.
Lippman & Sugarman, 135 Stockton St.
Luckhardt Co., C. A., 53 Stevenson St.
Molyneux, H. B., 42 First St. Pharmaceutical
Noble & Co., R. E., Humboldt Bank Bldg.
Pacific Chemical Laboratories, 417 Montgomery St. Foods, oils, paints, soap
Pacific Wassermann Laboratories, 501-506 Pacific Bldg.
Price & Son, Thos., 503 Market St.
Smith, Emery & Co., 651 Howard St.
Tales, J. K., 165 Jessie St.
West, Nicholas R., Laboratory, 463 Folsom St.
White, H. M., 516 Suter St.

Canada, Montreal

Canadian Inspection & Testing Laboratories, Ltd.

Milton Hersey Co., Ltd., 84 St. Antoine St. Industrial, inspection, metallurgy

Canada, Ontario

Allen, Lucius E., Canadian Bank, Commerce Bldg. Industrial, metallurgy

Canada, Quebec

MacKinnon Holmes & Co., Drummond St., Sherbrooke

China, Shanghai

Fong Yih-Sen, 268 Canton Road

Colo., Denver

Greenwald, Julius, 1484 Grove St. Root & Simpson, 1744 Broadway.

Colo., Sherman

Olney, F. D., 301 Palm Ave Metallurgy

Conn., Bridgeport

Bridgeport Testing Laboratories, 398 John St.

Ferry, Charles, 435 Washington Ave. Sturges, H. M., 102 Aldine Ave. Rubber

Conn., Bristol

Moore, George P., 31 High St Alloys, metallurgy

Conn., Hartford

Hartford Laboratory Co., 112 High St. Newlands Sanitary Laboratory, 11 Laurel St.

Souther Eng. Co., Henry, Low St. Wheeler, S. P., 153 John St.

Conn., New Haven

Collins, Paul, 746 Chapel St.

Conn., New Britain

Davenport & Keeler, Inc., 441 Arch St.

Conn., Stamford

Borg Laboratories, 539 Main St.

Conn., Stratford

Peck, T. E.

Conn., Wallton

Winton, A. L. Foods, litigation

Cuba, Havana

Yturrioz, Gonzalo, Amagura 59. Pharmaceutical

Del., Wilmington

Abraham, Clinton D., 29 S. Sycamore St. Rubber

Betts, Wm. V., Lyle Apts. Saltpetre Maltman, Wm. S., 2320 Washington St Organic

Miller, W. P. Co., 809 French St. Ortiz Analytical & Testing Laboratories, 510½ Market St.

Pipes, W. Henri, 926 French St.

Smith, Frank Roop, 508 King St.

D. C., Washington

Adams, A. B., Chief Chemist, Internal Revenue Laboratory, Treasury Dept.

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 Physical
 Electrolytic Oxy-Hydrogen Labora-
 tories, Inc., 15 William St.
 Epstein, H. M., 175 Front St.
 Eschmanns, Richard A., 226 Lafayette
 Ave.
 Faber, Henry B., 115 Broadway
 Falk, K. G., 428 W. 59th St. Research
 Farmer & Malcolm, East End Ave. and
 80th St.
 Featherstone Technical Research Lab-
 oratories, 1130 Church St.
 Ferguson Laboratories, 121 W. 42nd St.
 Fordham Andey Laboratory, 1278 Ful-
 ton Ave.
 Franklin Laboratories, 338 Pearl St.
 Fraser Laboratories, 50 E. 41st St.
 Freeman, Walter K., 30 E. 42d St.
 Franch-Pancoast Laboratories, Inc.,
 109 Broad St.
 Galpin, H. T., 57 W. 57th St.
 Geisler, Jos. F., 6 Harrison St.
 General Research Laboratory, Inc.,
 514 E. 58th St.
 Globe Chemical Laboratories, 58
 Prince St.
 Graf, Wm., 171 Madison Ave.
 Griffin, James H., 277 Broadway
 Grosvenor, Wm. M., 50 E. 41st St. In-
 dustrial
 Halpern, Louis W., 48 7th St.
 Haile, Wm. R., 47 W. 34th St.
 Harnden, Frederick E., 99 John St.
 Harris Laboratories, 86 Fulton St.
 Hawkins Ives Corp., 9 Church St.
 Hazard's, E. C., 74 Grove St.
 Hedwig Laboratories, 729 7th Ave.
 Hersey Co., Ltd., Milton, 198 Broadway
 Higgins Laboratories, 40 E. 41st St.
 Hirsch, Dr. J. M., 120 Broadway.
 Hochstadter Laboratories, 227 Front
 St.
 Hoff, John N., 17 Battery Pl.
 Hollander, Louis, 60 E. 118th St.
 Horn, T. P., 635 W. 115th St. Leather,
 oils, soap, varnish
 Hudson, W. G., 1133 Broadway
 Hudson & Co., Inc., 489 5th Ave.
 Hunt, Fred F., 10 Old Slip St.
 Hygienic Laboratories, 231 2d Ave.
 Industrial Testing Co., 402 W. 23d St.
 Fermentation, foods
 Institute of Chemistry, Pathology &
 Bacteriology, 45 E. 42d St.
 International Druggists & Chemists
 Laboratory, Inc., 280 Pearl St.
 International Laboratories, 65 Irving
 Pl
 Ising, Chas. E., 2228 Broadway
 Jackson, Louis L., 5 Beckman St.
 Jacobs Laboratory, Inc., 49 Wall St.
 Jacoby, Henry E., 95 Liberty St.
 Jaack Co., Louis, 257 Front St.
 Janny, Alois, 25 Frankfort St.
 Johnson, Emil F., 96 Maiden Lane
 Jones, Prof. Wm., 104 John St.
 Jurist, Benjamin, 19 Park Pl.
 Kamhourian, C. S., 321 Madison Ave.
 Kann, Robert, 124 Front St.
 Kilbourne, Chas. H., 1476 Broadway
 Klotz, J. R. M., 120 Broadway
 Knudsen, K. H. V., 96 Maiden Lane
 Kobbler, Jos., 36 2d St.
 Kraus Research Laboratory, Inc., 130
 Pearl St. Ceramics, refractories
 Kruskal, Nicholas, 329 Grand Ave.
 Lantz, Carl C., 1931 Broadway
 Lederle Laboratories, 39 W. 38th St.
 Ledoux & Co., 99 John St.
 Lee, A. Porter, Produce Exchange
 Lee, Walter, 337 W. 22d St.
 Levine, V. E., 36 E. 2d St.
 Lieher & Co., H., 14 Platt St.
 Lingert, A. E., 321 Madison Ave.

- Loper, George W., 122 Front St.
 Love, E. G., 130 E. 15th St.
 Lowe, Charles O., Produce Exchange
 McIlhiney, P. C., 50 E. 41st St.
 McKenna, Dr. Chas. F., 56 Church St.
 Manhattan Laboratories, 294 6th St.
 Marvin-Davis Laboratories, Inc., 85
 9th Ave. Feeds, foods, steels,
 waters
 Mason Laboratories, Inc., 142 W. 125th
 St.
 Masson, Henry J., 153 E. 184th St.
 Gas, petroleum
 Matthews, J. Merritt, 50 E. 41st St.
 Dyes, textiles
 Maywald, Frederick J., 89 Pine St.
 Melzer, Wm., 66 Beekman St.
 Metchnikoff Laboratory, 225 6th St.
 Miller, David, 93 2d Ave.
 Miller, Theo., 560 W. 48th St.
 Munro & Co., 1 Liberty St.
 Munsell, Chas. E., 110 Horatio St.
 Murrill, Paul I., 50 52 E. 41st St.
 Explosives, intermediate
 Murray Hill Laboratory, The, 321
 Madison Ave.
 National Pathological Laboratory,
 Inc., 19 E. 41st St.
 New York Sugar Trade Laboratory,
 Inc., 80 South St. Sugar
 N. Y. Testing Laboratories, 80 Wash-
 ington St. Heat treatment, metal-
 lography, metallurgy
 Niagara Chemical Laboratories, 76½
 Pine St.
 Official Testing Laboratories, R. O.
 Brooks, 191 Franklin St.
 Orlewitz, H., 251 W. 34th St.
 Palmenberg, Oscar W., 50 E. 41st St.
 Pitkin, Lucius, Inc., 47 Fulton St.
 Alloys, metallurgy
 Practitioners Laboratory, 624 Madison
 Ave.
 Process Engineers, Inc., 501 Fifth Ave.
 Oils, paper, pulp
 Randel & Co., F. L., 120 Liberty St.
 Dyestuffs, glycerine, oils, textiles,
 patents
 Rankin, Jas., Jr., 99 John St.
 Reed-Morris Laboratory, 227 Fulton
 St.
 Reisenberg & Bro., F. E. (Inc.), 106
 Fulton St.
 Reinherr, Chas., 2017 Anthony Ave.
 Reliance Laboratory, 77 Pearl St.
 Research Laboratories, Inc., 19 Park
 Pl.
 Ricketts & Co., Inc., 86 Maiden Lane
 Rodrian, Rich., 143 E. 23d St.
 Rogers, Robt. W., 18 E. 41st St.
 Rosenthal, Dr. J. Myron, 767 Dawson
 St.
 Rossati, Guido, 226 Lafayette St.
 Rutstein, Leo., 2 Rector St.
 Saarbach, Ludwig, 114 Pearl St.
 Salinitro, Nicholas, 173 E. 116th St.
 Pathological
 Sanche, Hercules, 489 5th Ave.
 Schlauch, Theo. S., 368 W. 57th St.
 Schlichting, Emil, 402 W. 23d St. Fer-
 mentation, foods
 Schulhof, Dr. Leo, 90 John St.
 Schwarz Laboratories, 200 Worth St.
 Biological, drugs, foods, fuels, lubri-
 cants
 Scientific Station for Pure Products,
 50 E. 41st St.
 Schnitter, Adolph, 1230 Boston Rd.
 Sherer Bros., 120 Front St.
 Silliman, H. E., 136 W. 52d St.
 Singer's Laboratory, 56 Lenox Ave.
 Smith, Carl E., 5 Beekman St. Phar-
 maceuticals, wood distillation
 products
 Smith, Martin & Co., 150 Lafayette St.
 Sowers, Ossa, 4 Cedar St.
 Sparks, John C., 30 Church St.
 Sparks, Jno. E., 30 Church St.
 Spring, Geo. A., 664 6th Ave.
 Starr, Henry F., 80 Maiden Lane
 Stebbins, Jas. H., Jr., 50 E. 41st St.
 Stillman & Van Siclen Chemical Lab-
 oratory Co., 6 Church St.
 Stillwell & Gladding, 95 Front St.
 Stillwell Laboratories, 76½ Pine St.
 Drugs, fertilizers, foods, ores, paints
 Straus Laboratory, 348 E. 32d St.
 Suckert, J. J., 30 Church St.
 Sydenham Laboratories, 616 Madison
 Ave.
 Takamine Laboratory, Inc., 120 Broad-
 way
 Talico Laboratory, 307 E. 119th St.
 Teeple, Jno. E., 50 E. 41st St.
 Terpezone Co., 18 E. 41st St.
 Thomas, Alphonso H., 103 Front St.
 Turner, Francis M., Jr., 1 Madison
 Ave.
 Ulrich, Janet R., 23 Beaver St. Ce-
 reals, foods
 Underwriters Laboratory, Inc., 135
 William St.
 United Laboratories, 45 E. 42d St.
 Van Der Linde, Harold, 30 Church St.
 Von Oefe, Felix, 326 E. 58th St.
 Waller & Renaud, Inc., 159 Front St.
 Alloys, fertilizers, graphite, ores,
 waters
 Warren, H. S., 18 E. 41st St.
 Watters, Dr. L. L., 157 E. 23d St. Dis-
 infection, sterilization
 Weichmann, F. G., 39 W. 38th St.
 Weichert, A., 101 Wall St.
 Weinstein, Jos., 1771 Madison Ave.
 Wiechmann, F. G., 90 West St.

- Wolf, August S., 310 W. 95th St. Pathological
 Worden, Edw. C., 2 Rector St.
N. Y., Niagara Falls
 Currie, L. M. L., 222 Fifth St. Alloys, metals
 Fitzgerald Laboratories, Inc., 107 State St.
 Heindl, Raymond A., 462 11th St. Research
N. Y., Rochester
 Coates, Bennett & Reidenbach, Inc., 97 St. Paul St.
 National Food Manufacturers Laboratory, 86 White St. Foods
 Probst Co., P. T., 29 N. Water St.
 Richardson Corporation, 1069 Lyell Ave.
 Scott, John Wood, 107 State St. Biological, foods
 Smith, J. H., 61 South St.
 Will Corporation, The, 262 East Ave.
 Wright, Alfred G., 531 Main St., W.
N. Y., Schenactady
 Organic Products Corporation, Schenectady Hygienic Laboratories.
 Steinmetz, Charles P., General Electric Co.
N. Y., Syracuse
 Booth, Wm. M., First Trust & Deposit Bldg. Textiles, waters
 Cummings, J. Miles, 200 W. Castle St.
 Cummings, W. L., 117 Standart St.
 Englehardt, F. E., 405 City Hall
 Fryer, George S.
 Porter, J. Edw., 8 Clinton Block
 Steinmetz, Charles P., Wendell Ave. Electrical
N. Y., Troy
 Masox, Wm. P., Rensselaer Polytechnic Institute. Sanitation, waters
N. Y., Utica
 Murray, W. S.
N. Y., Yonkers
 Hallock, Albert P., 10 Stone St.
N. C., Charlotte
 Drane Laboratory, Fred P.
 Hawley's Laboratories.
N. C., Wilmington
 Caldwell, T. B.
 Law & Company, Inc. Fertilizers, foods, fuels, oils, paints, waters
Ohio, Canton
 General Laboratories, 13th and Court Aves., S. W.
Ohio, Cincinnati
 Broeman & Co., F. C. Laboratory, 215 E. 4th St.
 Cincinnati Testing Bureau, Room 4, 31 E. 4th St.
 Cincinnati Biological Laboratories Co., 54 Vindonesse Bldg.
 Cook Biological Laboratories, Hamilton Pike, Mt. Healthy.
 Dreckman, Dr. Otto, 1180 Harrison Ave.
 Felton, S. J., 130 Woolper Ave. Metallurgy
 Hopkins, L. L., Pollack Steel Co. Steel
 Lunkenheimer Co., The, Waverly and Beekman Sts.
 Meyers, Edw. G., 1014 Elizabeth St. Dyes, pharmaceuticals
 Pittsburgh Testing Laboratory, 211 Bell Block
 Robinson, Louis G., Laboratory, Harrison Bldg., 31 E. 4th St.
 Shannon & Co., E. J., 217 Main St.
 Simonson, Wm., 126 W. 9th St.
 Werner, Louis, 914 Race St.
 Westenfelder, B. D., 1414 Race St.
 Wetterstroem, Theo. D., 118 E. 6th St.
Ohio, Cleveland
 Agricultural Laboratory, 942 Prospect St. Agricultural
 American Bureau of Analysis Laboratory, 338 Anisfield Bldg.
 Bennett, E. J., 2041 E. 3d St.
 Bishop, S. M., 6523 Euclid Ave.
 Black, C. A., 513 Superior Bldg. Foods
 Burwell, A. W., 3128 Euclid Heights. Research
 Cleveland Laboratory, The, 605 Bangor
 Cleveland Research Laboratory, 2391 W. 38th St.
 Cleveland Testing Laboratory, 517 Superior Bldg.
 Cremer & Case, 2800 Washington Ave., N. W.
 Crobaugh, Frank L., Co., 1 Bratenhl Bldg.
 Crowell & Murray, 407 Perry Payne Bldg. Metallurgy
 Emmerton, Frederic A., 1501 Columbia Road, N. W.
 Frank, E. C., 1315 E. 84th St. Metallurgy
 Hannum Laboratory, 418 Caxton Bldg.
 Herron, James H., 2041 E. 3d St.
 Medical Chemical Laboratory, 646 Rose Bldg. Pathological
 Mewton & McCurdy, 1426 W. 3d St.
 Mohr Medical Laboratory, 617 Schofield Bldg.
 Peck, Francis J., & Co., 731 Williamson Bldg.
 Pittsburgh Testing Laboratories, 242 Rockefeller Bldg.
 Rattle, W. J., & Son, 33 Commercial Bank Bldg.

- Stern, Mortimer E., 2515 E. 43d St.
Alloys, steels
Textor Chemical Laboratories, 603
Superior Ave., N. W.
Branches:
Agricultural Laboratory, 942 Pros-
pect Ave., S. E.
Cleveland Laboratories, 942 Pros-
pect Ave., S. E.
Industrial Testing Laboratory,
517 Superior Bldg.
Newton & McCurdy, 1426 W. 3d
St., N. W.
Pittsburgh Testing Laboratories,
242 Rockefeller Bldg.
- Ohio, Columbus*
Howard, C. C., 151 E. Broad St.
Long, C. F., 8 E. Long St. Fertilizers,
fuels, waters
Markworth, O. S., Ohio Testing
Laboratory
Moore, Wendall A., 56 W. 10th Ave.
Dye intermediates
Winthron, James R., Ohio State Univ.
Industrial
- Ohio, Dayton*
Electrolytic Oxy-Hydrogen Labora-
tories, Inc., Beaver Power Bldg.
- Ohio, Fremont*
Benner, Raymond C., National Car-
bon Co.
- Ohio, Toledo*
Kirchmaier, G. A.
Morgan, G. S.
Rex, C. R., Tri-State Laboratories
- Ohio, Youngstown*
Moyer, Willard F., 72 Broadway.
Atmospheric nitrogen, coke by-
products
Pierce, Edwin G., Box 442
- Okl., Bartlesville*
Down, Donald B. Gas, oils
- Okl., Oklahoma City*
Walker, Wm. A., 401 2d St. Drugs,
foods
- Oregon, Corvallis*
Harvey, E. M. Physiological
- Oregon, Oregon City*
Wiberg, Agart
- Oregon, Portland*
Edwards & Lazell, 537 Railway Ex-
change
Gilbert-Hall Co., 609-13 Couch Bldg.
Harding, E. P. W., 622 Worcester Bldg.
Lazell, E. W., Railway Exchange
Bldg. Engineering chemistry
Oregon Independent Testing Labora-
tory, 263½ Yamhill Ave. Com-
mercial
Pernot Laboratories, 502 Medical
Bldg.,
- Pa., Allentown*
McCready, E. B.
Eastern Testing Laboratories
Snelling, W. O., 205 N. 5th St.
- Pa., Arnold*
Svenson, Elmer B., Kenneth Ave.
Cement, explosives, fuels, gases
- Pa., Aspinwall*
National Cannery Laboratory. Foods
- Pa., Easton*
Shimer, Porter W., 94 Penna Ave.
- Pa., Erie*
Erie Laboratory, 1519 French St.
- Pa., Lancaster*
Goodell, J. E., 458 Woolworth St.
- Pa., New Kensington*
Churchill, H. V. Aluminum
Gorrell, John J., 209 Ridge Ave.
Metallurgy
- Pa., Palmerton*
Smoley, E. R., Horsehead Inn. Zinc,
metallurgy
- Pa., Philadelphia*
Adamson, Chas. B., 138 S. Third St.
Althouse & Heyer, 1502 Real Estate
Trust Bldg.
Bacteriological Laboratory, 2d and
Luzerne Sts.
Barnes, A. C., Co., 24 N. 40th St.
Booth Garrett & Blair, 406 Locust St.
Metallurgy
Bragger, Edgar, 3551 N. 5th St.
Carlitz, Jos. S., & Co., 159 N. 2d St.
Chemical Laboratory of Philadelphia,
159 N. 2d St.
Chemical Service Laboratory, Inc.,
Real Estate Trust Bldg.
Clute, Wm. W., 2118 Arch St.
Conwell, E. L., 2024 Arch St.
Cook, Harold J.
Dairy Laboratories, 1937 Market St.
Dairy products, foods, waters
Davis, George C., 39 S. 10th St.
Dean, J. Atlee, 5420 Baltimore Ave.
Dermatological Research Laboratories,
1720 Lombard St. Arsphenamine
Devor, George W., 113 Walnut St.
Dunker-Poole Co., 1829 Filbert St.
Eckels, H. S., & Co., Inc., 1922 Arch
St.
Feinberg, Jacob L., 3500 Gray's Ferry
Rd. Paints, varnish
Genth Chemical Laboratory, 138 S.
3rd St.
Graves, Meade & Baker Co., 639 N.
Broad St.
Hamlin & Morrison, 119 S. 4th St.
Hance, A. M., 249 S. Orianna St.
Hand, Jacob H., 217 S. 24th St.
Harkinson, Robt., & Co., 249 S. Ohi-
anna Ave.
Heinle, Chas. L., Spec. Co., 2731 Ken-
sington Ave.

- Hite, Charles E., 305 S. 2d St.
 Husband, Thom. J., Jr., 276 S. 3d St.
 Industries Chemical Laboratories, 1500 Wolf St.
 Isaac, Lawrence, 36 N. 4th St.
 Jacobs, Saml., 908 N. 8th St.
 Jones, Douglas & Co., 1910 N. Croskey Ave.
 Jones, C. L., 1213 Filbert St.
 Jones, W. H., 39 N. 50th St.
 Jordan, Frank J., 915 N. 13th St.
 Jordan, Jr., W. H. & F., 218 N. Delaware St.
 Kernan & Valentine, 721 Walnut St.
 Kesselman, L. E., 3134 Euclid Ave. Industrial
 Kitsee, Dr. L., 209 Walnut Place
 Langner, Paul H., 1726 Sansom St.
 LaWall, Charles H., 30 S. 10th St.
 Leichner, Charles, 1742 N. 10th St.
 Lynch, John J., 632 Carpenter St.
 Maynard, Lee H. P., 1937 Market St.
 Meyer, Theodore, 924 Locust St.
 Miller, R. C., 20th and Market Sts.
 Miller, T. Slocum, Co., 3806 Lancaster Ave.
 Morrison, B. H., 119 S. 4th St.
 Noble, Robert P., 2000 Green St. Toxicology
 Ogden Laboratories, 228 Chancellor St.
 Philadelphia Chemical Laboratory, Inc., 159 N. 2d St.
 Philadelphia Clinical Laboratory, Inc., 1833 Chestnut St.
 Philadelphia Research Bureau, 159 N. 2d St.
 Phillips & Jacobs, 622 Race St.
 Pinkerton, Thos. C., Real Estate Trust Bldg.
 Pittsburgh Testing Laboratory, Commercial Trust Bldg.
 Reinhart, J. Q., 510 Arch St.
 Rorer, Wm. H., 267 S. 4th St.
 Rosenbaum Bros., 605 S. 3d St.
 Rudy, Wm. D., 411 Walnut St.
 Sadtler, S. S., & Sons, 210 S. 13th St. Commercial
 Sharf, Morris, 2429 S. Adler St.
 Schofield, H. A., Commercial Trust Bldg.
 Searle & Hereth Co., 639 N. Broad St.
 Siebert, E. A., 127 Walnut St.
 Sloan, Earl S., Inc., 639 N. Broad St.
 Slocum Co., Ltd., 639 N. Broad St.
 Smith, N. B., 411 Walnut St.
 *Smith, Rudy & Co., 411 Walnut St. Fuels, metallurgy, waters
 Spackman Engineering Co., Henry S., 2024 Arch St. Alloys, cement, coal, concrete, metallurgy, oils, waters
 St. John, E. Q., 1831 Chestnut St.
 Terry & Seibert, 127 Walnut St.
 Tutwiler, C. C., 1629 Real Estate Trust Bldg.
 Underwriter's Laboratories, Inc., Bul-litt Bldg.
 U. S. Bureau of Chemistry, 134 S. 2d St.
 Walker-Gordon Laboratory Co., 1118 Jefferson St.
 Wahl, Manfred, 1716 Chestnut St. Fermentation
 Werbell Patho-Bacteriological Laboratories, 5th and Spring Garden
 White, Albert R.
 Whitfield, J. E., 404 Locust St. Metallurgy
 Wilson, Robt. J., & Co., 102 N. 60th St.
 Wolg, Chas. A., 600 S. 15th St.
 Zoelle, Wm., 623 Alleghany Ave.
- Pa., Pittsburgh*
 Anhaltzer, Henry, 323 Brushton Ave.
 Aschman, F. F., 608 McCance Block
 Bacon, Raymond, Mellon Institute Industrial Research
 Beilstein, Edw. G., 2225 Perryville Ave.
 Brown & Harley, 238 4th Ave.
 Brownlee, H. R., Laboratory, Inc., 1903 Benedum-Trees Bldg.
 Burrell, G. A., Benedum-Trees Bldg.
 Craven Research Laboratories, 1019 House Bldg.
 Dairy Laboratories, McCance Block
 Dairy products, foods, waters
 Davis, E. B., 24 Emerson Ave.
 Deane, Edgar A., 4719 Blair Ave.
 Demmeler, P. E., 5114 Black St.
 Duckwall, E. W., 2d and Brilliant Sts., Aspinwall
 Ford, J. B., Co., 507 Commonwealth Bldg.
 Golding, M. E., c/o Robert W. Hunt Co. Inorganic
 Gorges, Chas. A., Peabody Chemical Laboratories. Coal, fertilizers, metallurgy
 Gulick-Henderson Co., 525 3d Ave.
 Hall & Paul, Empire Bldg.
 Harley, F. O., Apollo Bldg.
 Hoffman Process Co., Park Bldg.
 Hunt & Co., R. W., Monongahela Bank Bldg.
 Kinkpatrick, F. A., Bureau of Standards. Glass
 Leigh Valley Testing Laboratory, 1607 Benedum-Trees Bldg.
 La Peer Laboratories, 637 Herron Ave.
 Mason & Son, F. L., May Bldg.
 McTaggart, J. R., McCance Block
 Mellon Inst. of U. of P., O'Hara St.

- Metallurgical Laboratory, Bailey Farrell Bldg.
 Moore & Co., W. E., 706 Union Bank Bldg.
 National Cannery Laboratory, 2d and Brilliant Sts., Aspinwall. Canned products
 Par Laboratories Co., 1st National Bank Bldg.
 Pathological Laboratory, 1037 Murrayhill
 Pittsburgh Chemical & Pathological Laboratory, McCance Block
 Pittsburgh Metallurgical Co., 818 Park Bldg.
 Pittsburgh Testing Laboratories, 7th and Bedford Aves.
 Pittsburgh Wassermann Laboratory, May Bldg.
 Rittman Process Corp., 115 Empire Bldg.
 Rose, Floyd & Co., 1st National Bank Bldg.
 Schindler Testing Laboratory, Geo., Hiland Bl.
 Singer Memorial Research Laboratory, Wm. H., Parkway, East and Sandusky Sts.
 Stahl, K. F., 57th and A. V. Ry.
 Stanley, H. M., 355 S. Pacific Ave.
 Steel City Testing Laboratory, Century Bldg.
 Stern, Herman, 1436 5th Ave.
 Stevens, K. K., Carnegie Institute
 Sweeney, J. J., 237 McKee Pl.
 Trus-Con Laboratories, 1103 Pittsburgh Bank for Savings Bldg.
 Watt, Wm. L., 1213 House Bldg.
 Webb, Z., 861 Lilac St.
 Williams, Jos., Co., 1104 Century Bldg.
 Wilson, Wm. S., 336 Lehigh Ave. Fuels, gases
 Witt, Harry L., & Co., 48 Logan St.
 Wolstoncraft, I. C., 504 Marwood St.
 Zemmer Co., 3943 Louisa Ave.
- Pa., Sewickley*
 Severance, Raymond C., 4 Mellville Lane. Asphalts, bitumens
- Pa., South Bethlehem*
 Richards, Joseph W., Lehigh Univ. Electrochemistry, metallurgy
- Pa., State College*
 Kriss, Max. Nutrition
- Pa., Waynesboro*
 Harbaugh, W. L. Metallurgy, plant supervisor
 The Sharples Specialty Co., West Chester, Pa.
- R. I., Newport*
 Davoll, David L., 270 Thames St. Fats, foods, oils, synthetic pharmaceuticals
- Lorah, James R., & Co., 141 Bellevue Ave.
- R. I., Providence*
 Bush & Co., Chas. S.
 Calder & Strickland, 4 Market Square. Physiological, textiles
 Fenner, Albert, 869 Westminster St.
 Green, E. H., 531 Grosvenor Bldg. Coal tar derivatives
 Hebden, J. C., Box 465
 Perkins, George E., 1620 Smith St.
 Saunders & Franklin, 184 Whittier Ave. Metallurgy
- S. C., Charleston*
 Parker Laboratories
 Sheppard Laboratories
- S. C., Columbia*
 Nims, Boyden
 Rice, Charles W.
- S. C., Kershaw*
 Habenicht, Leroy H. Cotton seed products
- S. D., Brookings*
 White, Malcolm C., 525 12th Ave. Analytical research
- Tenn., Chattanooga*
 Chattanooga Chemical Laboratory, 808 Pine St.
 Southern Chemical Laboratory
- Tenn., Knoxville*
 Childress & Hunter, 7 Masonic Temple
 Kuhlman & Chambliss Co., 301 S. Gay St.
 Nichols Laboratory, 519 Prince St., Knoxville, Tenn.
 Sanford, Chamberlain & Albers Co., 430 S. Gay St.
- Tenn., Memphis*
 Barrow-Agee Laboratories, 301-309 Falls Bldg.
- Tenn., Rockwood*
 Mills, Wm. M. Metallurgy
- Texas, Austin*
 Riddell, D. F., Box 285. Mining
- Texas, Dallas*
 Southwestern Laboratories, 1812½ Main St. Building materials cotton seed products
- Texas, Fort Worth*
 Fort Worth Laboratories, 204½ Houston St.
- Texas, Galveston*
 Paquin, Felix, Hall Bldg., 3d Floor
- Texas, Houston*
 Houston Laboratories, 215 Main St. Cements, clays, coals, fertilizers, ores, petroleum, oils, seed products, soils, waters
- Texas, Waco*
 Tenney, Robert B. Cotton seed products, fuels, soils

Utah, Salt Lake City

Bardwell, A. F., 158 S. West Temple
 Bird-Cowan Co., 160 S. West Temple
 Crimson & Nichols, 229 S. West Temple
 Currie, J. W., & Co., 70 W. Broadway
 Custer, A. E., 31 Post Office Place
 Ebaugh, W. C., 809 Kearns Bldg.
 Kingsley, G. E., 70 W. 4th St. South
 Kinney, S. P., 1605 Walker Bank Bldg.
 Officer & Co., R. H., 169 S. West Temple
 Union Assay Office, 152 S. West Temple
 Utah-Idaho Laboratory, 618 McIntyre Bldg.

Va., Norfolk

Norfolk Testing Laboratories, Inc., J. A. Callenbach, Director, Paul-Gale-Greenwood Bldg.
 Thomas Coblenz & Temple, Inc., 103 Bank St. Coals, coke, fertilizers, foods, greases, packing house products, waters
 Thomas, Edwin O., 803-12-14 Paul-Gale-Greenwood Bldg.

Va., Richmond

Froehling & Robertson, 815 E. Franklin St.
 Robb & Arnold, 4½ N. 11th St.
 Rudd & Bolenbaugh, 12th and Clay Sts. Foods, pharmaceuticals
 Whitfield, J. M., 1109 E. Broad St.

Va., Roanoke

Gibboney, J. G., c/o N. & W. R. R.
 Warren, Dudley T., 208 Winona Ave. Microscopical

Wash., Bremerton

Hart, Merrill C., 716 Washington St. Organic

Wash., Seattle

Bogardus Testing Laboratories, 90 Columbia Ave.
 Darrin Co., Inc., 312 Pantages Bldg.
 Dewsnap, Samuel G., 525 26th Ave., S.
 Falkenburg & Co., 116 Yester Way. Inspection, plant control, plant design, smelter control, empire analysis
 Frampton, Joseph F., Epler Bldg.
 Garnet's Diagnostic Laboratory, Cobb Bldg. Pathological
 Hildreth & Co., 116 Yester Way
 Hunt, Robert W., 4608 Bagley Ave.
 Knowles, Inc., Morris, 1200 Jones Bldg. Sewage, water
 Laucks, I. F., 99 Marion St. Assaying, oils, smelter control, umpiring
 Metropolitan Laboratories, 99 Marion St.
 Newhall Co., Charles A., 1910 Westlake Ave. Cement, inspection, plant control, cereals, packing house by-products

Pacific Coast Testing Laboratories, 502 Lyon Bldg.

Pacific Wassermann Laboratories, 1013 Joshua Green Bldg. Pathological
 Peterkin Memorial Laboratory, 1102 Cobb Bldg.

Physicians Clinical Laboratory, 1001 Cobb Bldg.

Pittsburgh Testing Laboratories, 1810 Westlake Ave.

Powell, Archibald O., Jr., 404 Central Bldg.

Secker & Harrison, 624 Northern B. & T. Bldg.

Smith, Corwin D., 1701 Hoge Bldg.

Stahl, K. F., 57th St. and A. V. Ry. Co. Inorganic research

Porto Rico, Pottiles

Girona, L. A. Sugar

Wash., Spokane

Fassett & Co., N. 209 Wall St. Assaying

Wash., Tacoma

Bennett Laboratories, The, 1142 Market St. Smelter

W. Va., Clarksburg

Engle, Robert H., 201 Milford St.

Wis., Green Bay

Krause, A. C., 225 N. Ashland Ave. Organic

Wis., Madison

Burgess Laboratories, C. F.
 Hawley, L. F., Forest Products Laboratory

Klueter, Harry, Chemistry Bldg.

Nichols, M. S., State Laboratory of Hygiene

Wis., Milwaukee

Atkinson, C. J., & Co., 326 Grand Ave.
 Barrett, S. R., 1319 8th St. Dairy products, foods

Cochrane, T. H., 317 11th Ave.

Haerry, John H., 2400 Grand Ave.

Industrial Chemical Co. of Milwaukee, 200-210 Pleasant St. Beverages, feeds, foods, research

Kremers-Urban Co., 529-531 Market St.

Lemon, Edward B., 652-656 Wentworth Ave.

Northwestern Laboratories, 307 Grand Ave

Paine, Dorothy, Station C, Box 327

Pittsburgh Testing Laboratories, 450 Prospect Ave.

Prentiss, George N. 225 34th St.

Wis., Reedsburg

Trebilcock, R. J. Dairy products

Wis., Waukesha

Kemmerer, George, 139 Laffin Ave.

Wyo., Laramie

Titus, Harry W., 565 N. 7th St.

II. CHEMICAL ENGINEERS

Ark., Fort Smith

Industrial Laboratories, Inc. Acetic acid, charcoal, manganese chloride (dioxide, sulphate), pyroligneous acid, wood alcohol

Cal., Los Angeles

Baruch, Edgar, 704 Wright and Calender Bldg.

Bovee, W. J., 1326 W. 41st St. Assaying

Payne, H. L., 223 W. 1st St.

Pomdexter, It. W., 2112 E. 52d St.

Schmidt, W. A., 1016 W. 9th St.

Sirch, C. W., 125 W. Third St. Fats, oils, waxes

Walker, Mark, 211 W. First St. Gold, metallurgy

Cal., Oakland

Drake, Bryant S., 5830 Colby St.

Cal., San Francisco

Beckman & Linden Engineering Corp., Balboa Bldg.

Drake, Bryant S., 501 Nevada Bank Bldg.

Foundation Co., The, Holbrook Bldg.

Gould & Ash, 216 Pine St.

Heinrich, Edward O., 2682 Union St. Jurisprudence

Pacific Chemical Laboratories, 417 Montgomery St. Cereals, fats, oils, paints, petroleum, research, soap

Pike, Robert D., 71 New Montgomery St. Carbon, clay, insulation products

Westinghouse, Church, Kerr & Co.

Cal., Stanford University

Mitchell, J. Pearce

Canada, Belleville, Ont.

Allen, Lucius E., New Bank of Commerce Bldg.

Canada, Ottawa, Ont

Haanel, Eugene, Department of Mines

Canada, Montreal

Allen, Lucius E., Canadian Bank Commerce Bldg. Metallurgy

Canadian Inspection & Testing Laboratories, Ltd.

De Cew, J. A., Canadian Express Bldg.

Hersey Co., Ltd., Milton, 84 Ontario St. Assaying, mining engineering and management, paving engineering, inspection

Ulmer, Jr., Geo. G., 4355 Montrose Ave. Electrochemistry, dry colors, paints

Westinghouse, Church, Kerr & Co.

Colo., Denver

Dorr Co., The, 1009 17th St.

Conn., Hartford

Goldstein, Louis J., 18 Adelaide St. Rubber

Southern Engineering Corp., Henry 11 Law St.

Cuba, Cienfuegos

Le Blanc, Evaristo Montalvo, Arguelles 145

D. C., Washington

Bradford, E. W., Loan & Trust Bldg. Patents

Institute of Industrial Research

Surface, Henry E., c/o U. S. Forest Service. Forest products

Swing, Alva F., 1739 P St. N. W. Boiler feed water

White, Alfred H., 204 Florence Court

Zeisberg, Fred C., 1018 Rodney St.

Acids, nitrogen fixation

Del., Wilmington

Chemical Engineering Laboratory of Francis du Pont

Dann, Hollis H., Du Pont Exp. Station. Cotton seed by-products

Maltinan, Wm. S., 2320 Washington St.

Fla., Plant City

Gooch, Stapleton D.

Ga., Atlanta

Fairlie, Andrew M., 3d Nat. Bank Bldg. Construction, control design of sulphuric acid plants

Law & Company, Inc.

Pratt Engineering & Machine Co.

Ga., Ludawici

Thompson, P. H. Industrial

Ill., Batavia

Sperry & Co., D. R.

Ill., Chicago

Boyer, Alden S., 201 E. Chestnut. Research

Burgess Laboratories, C. F., 111 W. Monroe St.

Cannon-Swenson Co., 53 W. Jackson Blvd.

Deavitt Laboratories, 209 S. LaSalle St. Development of processes, chemical plant construction

De Beers, F. M., 53 W. Jackson Blvd.

Deeds, Warren A., 11414 Calumet Ave. Development of processes, construction and design

Drucker, S., 608 S. Dearborn St.

Dunlap, F. L., 1457 Monadnock Blk. Processes, patents, plant control and operation

Flood, Walter H., 3725 Langley Ave.

Foundation Co., The, Rookery Bldg.

Garrigues & Co., Wm., W. 45th and Western Blvd.

- Grossman, A. N., 5 N. LaSalle St.
 Gudeman, Edward, 903 Postal Telegraph Bldg.
 Gullick-Henderson Co., 4315 Dearborn St. Commercial
 Hirsh, Dr. J. M., 1303 Tribune Bldg.
 Hoskins, Wm., 111 W. Monroe St.
 Khout, Jerome F., 37 Van Buren St.
 Lord Corporation, C. H., 1910 Calumet Ave.
 McCormack & Co., 33d and Armour Ave.
 Marx & Co., V. E., 130 N. Wells St.
 Mason, F. P., 140 S. Dearborn St.
 McClure, C. H., 112 W. Adams St.
 Niven, Maxim, 64 E. Jackson Blvd.
 Drugs, foods
 Nuckolls, A. H., 207 E. Ohio St. Gases, rubber, vapors
 Pickard, Glenn H., 9 South Clinton St.
 Research Laboratory of Chicago, 467 E. Ontario St. Dyes, pharmaceuticals
 Siebel, A. E., 8 S. Dearborn St.
 Sieck & Drucker, Transportation Bldg.
 Hydrogenation of oils, treatment of oils
 Singer, Pearlstein Co., 30 N. La Salle St.
 Stroud, E. H., & Co., 928-934 Fullerton Ave.
 Unger, John S., 3344 Broadway
 Wahl-Henius Institute, 1135 Fullerton Ave. Beverages, foods
 Water Purification Laboratories, 6549 S. Bishop St. Water purification
- Ill., LaSalle**
 Ede, J. A.
- Ill., Urbana**
 Bartow, Edward, University of Illinois Waters
- Japan, Tokio**
 Nakamigawa, Yugo Mitashiba.
 Electrochemistry
- Ky., Louisville**
 James & Brecklor, Inc., Kentucky Title Bldg.
- La., New Orleans**
 Freeland, E. C., 931 Henry Clay St.
 Sugar
 Gastrock, Edward A., 3120 Magazine St. Paints
 Liepsner, F. W., 825 Gravier St.
 Magne, J., Canal Bank Bldg. Fermentation
 Morse, Irving H., 213 N. Peters St.
 Sugar
 Williamson, C. S., Jr., Tulane Campus
- Md., Baltimore**
 Bartlett-Hayward Co.
 Hoffman, Wm. E., Jr., 524 Equitable Bldg.
- Meade, Richard K., 11 E. Fayette St.
 Miller, Ernest B., 1100 Garrett Bldg.
- Mass., Boston**
 Badger, E. B., & Sons Co., 63-75 Pitts St. Medical equipment
 Barker, Perry, 851 Old South Bldg.
 Fuel tests
 Barrier, Edw. A., 31 Milk St. Fire protection, rubber
 Fish, Charles C. R., Engineers Club, Commonwealth Ave.
 Lummus, Walter E., Co., 173 Milk St.
 Parks-Cramer Co. Heat and heating systems
 Sharples, Stephen P., 26 Broad St.
 Weston & Sampson, 14 Beacon St.
 Disposal of factory wastes, sanitation, waters
- Mass., Cambridge**
 Little, Arthur D., Inc., Charles River Rd.
- Mass., Fall River**
 Austin, Herbert, P. O. Box 259
 Scott, Ernest, & Co. Chemical plant equipment and processes
- Mass., Lowell**
 Olney, Louis A., Lowell Textile School
- Mass., Somerville**
 Wilkins, Harold S., 98 Central St.
 Electrochemistry
- Mass., Worcester**
 Boyajian, S. K. Explosives, fuels, metallurgy
- Mich., Ann Arbor**
 Baker, Edwin M. Chlorine salts, vacuum evaporation
 White A. H. Fuels, gases, paper mill wastes, nitrogen fixation
 Wendler, A. F. Fuels, gases, metallurgy
 Zimmerli, F. P., 1511 Washtenaw St.
 Metallurgy
- Mich., Detroit**
 Cannon, J. L., 30 Prentiss Ave.
 Detroit Testing Laboratory, 674 Woodward Ave.
 Diack & Smith, 49 W. Larned St.
 Metallurgy
 Plumb, R. Alfred, 190 Farnand Park.
 Cement and paint technology
 Putnam, Wm. P., 674 Woodward Ave.
 Metallurgy
 Steere Engineering Co., Woodward Ave. Chemical plant equipment
 Ware, Elmer, 147 Westminster
- Mich., Flint**
 McDougal, T. G. Ceramics
- Mich., Midland**
 Hunter, R. M., Box 286. Electrochemistry
 Nickle, Frank H., 1321 N. Bond St.
 Chlorine products, bromine products, caustic soda treatment

- Minn., Minneapolis*
Zenith Scientific Laboratories, 21 5th St., N.E.
- Mo., Kansas City*
General Testing Laboratory, 1114 Grand Ave. Commercial
Kansas City Testing Laboratory, 1013 Grand Ave.
- Mo., St. Joseph*
Leo, Herbert I., 800 Grand Ave. Fermentation, foods
- Mo., St. Louis*
Cross, Walter M., 1013 Grand St. Sanitation
Driemeyer, G. F., 5410 Vernon Ave. Metallurgy
Goldman Process Co., 1935 Boatman's Bank Bldg.
Hinrichs, Carl G., 4106 Shenandoah Ave. Commercial
Jones, Archibald, 4415 W. Pine Blvd.
Kessler, J. J., 224 S. Vandeventer St.
St. Louis Sampling & Testing Works, 711 Clark Ave. Metallurgy
Wiedemann, H. E., Chemical Bldg. Industrial, organic
- Mont., Butte*
Giard, Eugene A., 321 Alabama St. Industrial research
- Neb., Omaha*
Barr, Wm. M., 4910 Dodge St. Waters
Crowley, Charles F. Coals, foods, gas, oils, waters
Wilton, N. H.
- N. H., Berlin*
Comstock, R. L., 163 Denmark St. Caustic soda, common organic chlorine products, electrolytic chlorine
- N. H., Keene*
Dort, Robert G., 85 Washington St. Aeronautical chemical problems
- N. H., Nelson*
Dolley, Charles S.
- N. J., Bloomfield*
Boeshore, Jay F., 14 Henry St. Industrial
- N. J., Burlington*
United States Cast Iron, Pipe & Foundry Co.
- N. J., Carteret*
Wheeler Condenser & Engineering Co.
- N. J., East Orange*
Bicknell, R. S., 402 William St.
Matthews, J. M., 5 Berwyn St.
Myers, Ralph E., 257 Midland Ave.
- N. J., Hackensack*
Phillip, Herbert. Factory control, industrial research, design, plant investigation, report
- N. J., Jersey City*
Booth Co., L. M., 58 Hudson St.
Fogg, Wendell G., 35 Boyd Ave.
- Jacobson, David L., 578 Grand St. Coke by-products, gasoline, natural gas
- Koven & Bro., L. O., 154 Ogden Ave. Equipment and industrial processes
- N. J., Long Branch*
Hazard, Elmer C., Manufacturing plants
- N. J., Maywood*
Tonry, Wm. S., Passaic St. near Elm
- N. J., Montclair*
Dinkins, Philip M., 49 Plymouth St.
Edel Laboratories, Inc., 116 Market St. Commercial
Ellis, Carleton
Ellis-Foster Co.
Lamkin, Charles D., 116 Market St. Coals, metals, waters
New Jersey Testing Laboratories, 92-98 Greenwood Ave.
- N. J., Newark*
Maywald, Frederick, 86 Park Place. Rubber
- N. J., New Brunswick*
Vetter, John, 135 Johnson St. Laboratory engineering
- N. J., Parlin*
Waite, W. J., c/o Hercules Powder Co. Nitrocellulose and allied products
- N. J., Perth Amboy*
Zwingerberger, O. K., 60 State St.
- N. J., Plainfield*
Bindschedler, Emile. Artificial silk
- N. J., Rutherford*
Schroeder, C. M. Edw.
- N. J., Trenton*
Trenton Electro-chemical Laboratories, 709 Hamilton Ave. Metallurgy
- N. J., Weehawken*
Oilar, Rozier D., 843 Boulevard, E. Fats, oils, soaps
- N. J., Woodcliff-on-Hudson*
Bruckmann, Gustav T., 1001 Park Ave.
- N. Y., Brooklyn*
Hahlweg, George P., 1287 Hancock St.
Johnson, John, Co. Filtration, industrial processes
Olsen, J. C., 85 Livingston St. Foods, sanitary science
Pines, William, 828 Eastern Parkway. Explosives
Ross, Chas., & Sons Co., 141 Classon St.
Wills, J. Lamson, 133 Midwood St. Beverages, ferments
- N. Y., Buffalo*
Arnold, Fred N., 401 Delaware Ave. Fats, glycerine, intermediates, oils, packing house products
Buffalo Foundry & Machine Co., 7 Winchester Ave. Equipment and processes

- Hill, Herbert M., 20 W. Eagle St.
Drugs, foods, poisons
- Kohls, Clarence A., 1085 Elmwood Ave. Metallurgy
- Sowers Mfg. Co. Equipment and processes
- Zaremba Co., D. S., Morgan Bldg.
Equipment and processes
- N. Y., Ithaca*
- Briggs, T. R., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Browne, A. W., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Cavanaugh, G. W., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Cross, L. J., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Dennis, L. M., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Georgia, F. R., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Jackson, S. D., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- McKinney, A. E., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Nichols, M., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Rice, F. E., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- Rider, A. J., Dept. of Chemistry,
Morse Hall, Cornell Univ.
- N. Y., LeRoy*
- Jones, Geo. P. Explosives
- N. Y., Long Island, Jamaica*
- Wagner, Glenn H., 59 Branford St.
Metallurgy, process development
- N. Y., New York City*
- Abbe Engineering Co., 220 Broadway
Equipment and processes
- Abbé, Paul O., New St. & Exchange
Equipment and processes
- Bacon, Charles, V., 3 Park Row. Fats,
inspection, oils, paints, soap, testi-
mony, varnish
- Baskerville, Chas., 140th St. and Con-
vent Ave. Hydrogenation, research
organization and planing, rarer
elements, oils, innocuous fumes
- Beach-Russ Co., 220 Broadway
Equipment and processes
- Bethlehem Foundry & Machine Co.,
149 Broadway. Equipment and pro-
cesses
- Boeck, P. A., 11 Broadway
- Bowman, Walker, 39 Cortlandt St.
- Brown, H. E., 115 Broadway
- Campbell, C. L., 101 Park Ave.
- Carden Process Co., 30 Church St.
- Chemical Engineer & Research Corp.,
120 Broadway. Equipment and pro-
cesses
- Chipman Chemical Engineering Co.,
95 Liberty St. Equipment and pro-
cesses
- Chu, Cheng Hou, Hartley Hall, Co-
lumbia Univ. Industrial, organic
- Chute, Harry O., 52 E. 41st St.
- Cohoe, Walter P., 111 Broadway
- Colby, Albert Ladd, 165 Broadway
- Combustion Engineering Corp., 11
Broadway. Equipment and pro-
cesses
- Condict & Co., Alden St., 2 Rector St.
- Dorr Co., The, 17 Battery Pl. Equip-
ment and processes
- Dow & Smith, 131 E. 23d St. Asphalts,
bituminous materials, petroleum
inspection, roofing and water proof-
ing compounds
- Du Vivier, E. H., 30 Church St.
- Foundation Co., The, Woolworth
Bldg.
- Frasch, Hans A., 52 Broadway
- Fraser, John, 50 Church St.
- Freund, H. H., 154 W. 18th St.
- Garrigue, Wm., 150 Nassau St.
Equipment and industrial processes
- Gerdés & Co., Inc., 36 Church St.
Equipment and industrial processes
- Grano, E. Vang, 217 Broadway
- Greene, Van R. H., 50 Church St.
- Greenawalt, John E., 50 E. 42d St.
- Grosvenor, Wm. M., 50 E. 41st St.
- Hallruk Chemical & Engineering Co.,
215 Washington St.
- Harris, Frank P., 26 Courtlandt St.
- Hercules Engineering Corp., 501 Fifth
Ave. Equipment and industrial
processes
- Hirsch, A., 50 E. 41st St.
- Hirsh, J. M., 120 Broadway
- Hooper-Falkner Engineering Co.
- Horn, T. P., 635 W. 115th St. Leather,
oils
- International Process Co., 5 Beekman
St.
- Jacoby, Henry E., 50 Church St.
- Joyce, Clarence M., c/o J. Merritt &
Matthews, 50 E. 41st St.
- Kalbeperry Corp., 31 Union Square, W.
Design, investigation, supervision
- Koven, L. O., & Bro., 50 Church St.
Design, processes
- Lungwitz, Emil E., 30 Church St.
Filtration
- Lyman Chemical Engineering Co., Ltd.,
103 Park Ave.
- Mantius, Otto, Woolworth Bldg.
Caustic potash and soda
- Marchand & Co., Chas., 233 Broadway
- Marsh, Clarence W., 101 Park Ave.
Design, processes

- Marvin-Davis Laboratories, Inc.**, 85 9th Ave. Feeds, foods, metallurgy, waters
Masson, H. J., 153 E. 184th St. Equipment, natural gas, petroleum
Matthews, J. Merritt, 50 E. 41st St. Dyestuffs, textiles
McIntyre, A. G., 63 Park Ave. Paper, pulp
McKenna, Dr. Chas. F., 50 Church St.
Miller, Edward A., 529 W. 45th St.
Murrill, Paul I., 52 E. 41st St.
New York Testing Laboratories, 80 Washington St. Heat treatment, metallography, metallurgy
Oliver, T. C., 30 E. 42d St.
Ormont, Bernard, 106 John St.
Parker, Thos. J., 92 William St.
Peyton, Hunt Co., Inc., 55 Liberty St.
Pfaudler Co., The, 110 W. 40th St. Design
Pittsburgh Testing Laboratory, 50 Church St.
Process Engineers, Inc., 501 Fifth Ave. Oils, paper, pulp
Provost Engineering Corp., 220 Broadway
Randel & Co., F. L., 120 Liberty St. Dyestuffs, glycerine, oils, patented sealing compounds, textiles
Reinhard, Cyril D., 217 Broadway
Research Corporation, 63 Wall St.
Rickets & Co., Inc., 80 Maiden Lane
Roos', August, Son, 429 E. 91st St. Equipment, design, processes
Ruggles, Horace F., Wall and Front Sts.
Sanborn Evaporator Co., 50 Broad St. Equipment, design, processes
Schmatolla, Ernest C., 217 Broadway. Gas, refractory materials, high temperature furnaces, metallurgy
Simon, Emil J., 217 Broadway
Sinclair, A. F., Eng. Corp., 40 Church St.
Smith, Francis P., 131 E. 23d St.
Stevens Brothers, 149 Broadway. Equipment, design, processes
Stillwell Laboratories, 76½ Pine St. Drugs, fertilizers, foods, ores, paints
Tenney & Co., Chas. H., 19 W. 14th St.
Teeple, John E., 50 E. 1st St.
Trent, Walte E., 120 Broadway
Van Emden & Co., H., 145 W. 45th St. Paper, pulp, purification of cotton and wood fibre for nitrating purposes
Wallace & Co., J. H., 5 Beekman St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Whitaker, M. C., 27 William St.
Wiechmann, Ferdinand G., 330 W. 102d St.
Williams, F. M., 101 Park Ave.
Wolff, Harry W., 50 E. 41st St. Rare earth metals, pharmaceuticals, photographic chemicals
Wyckoff, G. H., 115 Broadway
N. Y., Richmond Hall
DeRosay, Kingsley E., 9104 118th St.
N. Y., Syracuse
Booth, William M., Trust & Deposit Bldg. Textiles, water
Porter, J. Edward, Box 785
N. Y., Troy
Mason, William P. Water supply, sewage
N. Y., Yonkers
Backeland, Leo H.
N. C., Baden
Moormann, T. A., c/o Tallahassee Power Co. Electro and physical chemistry
N. C., Charlotte
Law & Company, Inc.
Chemical Construction Co.
Ohio, Akron
Gage, Roscoe M.
Portage Rubber Co. Rubber
Yokel, Francis C., 324 Beaver St. Acids, alkalis, dyestuffs
Ohio, Cincinnati
Broeman & Co., F. C., 215 E. 4th St.
Cincinnati Testing Bureau, Room 4, 31 E. 4th St.
Felton, S. J., 130 Wolper Ave. Metallurgy
Hill & Sons Co., First Nat. Bank Bldg.
Pittsburgh Testing Laboratory, 211 Bell Block
Robinson, Louis J., 31 E. 4th St. Ceramics, metallurgy
Ohio, Cleveland
Black, C. A., 513 Superior Bldg. Foods
Burwell, A. W., 3428 Euclid Heights Blvd. Construction, research
Crowell & Murray, 407 Perry Payne Bldg. Metallurgy
Frank, Ethon C., 1315 E. 84th St. Metallurgy
Herron, James H., 2041 E. Third St.
O'Brian, Wm. J., 3518 Prospect St. Heavy chemicals, pigments
Peck & Co., Francis J., Williamson Bldg.
Smith, Albert W., 1133 Bellflower Rd.
Steel Improvement & Forge Co., 5000 Winsor Ave.
Young, P. K. B., 1546 E. 84th St. Oils, varnishes
Ohio, Columbus
French & Co., Edward H., 606 Brunson Bldg.

- Long, C. F., 8 E. Long St. Fertilizers, fuels, waters
 Orton, Jr., Edward, 1538 N. High St.
 Withrow, Jas. R., Ohio State University
 Acetic acid, caustic, chlorine, coal tar distillation, paints, petroleum, wood distillation
- Ohio, East Akron*
 Knight, Maurice A.
- Ohio, Lakewood*
 Kimmel, H. R., 18725 Sloane Ave.
 Smiley, Virgil D., 17313 Franklin Ave.
- Ohio, Mt. Vernon*
 Hope Engineering and Supply Co.
 Engines, gas, gasoline, oil
- Ohio, Youngstown*
 Moyer, Willard L., 72 Broadway.
 Atmospheric nitrogen
- Ohio, Toledo*
 Gage, Roscoe M., 206 Rosalind Pl.
- Ore., Portland*
 Geijsbeek Engineering Co., Blake
 McFall Bldg.
 Lazell, E. W., 537 Railway Exchange Bldg.
 Olmsted, Frederic A., 630 Northwestern Bank Bldg.
- Oregon Independent Testing Laboratory*, 3d and Yamhill Sts. Bitumen, dairy products, foods, fuels, paints, pharmaceuticals
- Pa., Arnold*
 Svenson, Elmer B., Kenneth Ave.
 Cement, explosives, fuels, gases
- Pa., Coatesville*
 Coatesville Boiler Works
- Pa., Easton*
 Shimer, Edward B., 94 Pennsylvania Ave. Metallurgical
- Pa., Fuller on*
 Fuller-Lehigh Co. Equipment, design
- Pa., New Kensington*
 Gorrell, John J., 209 Ridge Ave. Metallurgy
- Pa., Palmerton*
 Smoley, E. R. Zinc metallurgy
- Pa., Philadelphia*
 Eisenbrey, R. Howard, Harrison Bldg.
 Non-metallic mineral products
 Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
 Goldsmith, Henry F., 909 N. Franklin St.
 Hering, Carl, 19 S. 13th St.
 Meigs, Curtis G., Stephen Girard Bldg.
 Rogers, C. Stanley, Stephen Girard Bldg.
 Sadtler, Samuel S., & Sons, 210 S. 13th St.
 Salom, Pedro G., Commonwealth Bldg.
- Smith, Rudy & Co., 411 Walnut St.
 Fuels, metallurgy, waters
- Spackman Engineering Co., Henry S., 2024 Arch St. Alloys, cement, coal, coke, metallurgy, oils, waters
- Wedge, Utley, Stephen Girard Bldg.
- Weeks, Chas. A., 11th and Westmoreland St.
- Pa., Pittsburgh*
 Bacon, Raymond F., Mellon Institute
 Duff, Samuel E., Empire Bldg.
 Fair, Frederick C., Carnegie Tech.
 Fieldner, Wm. S. Fuels
 Foundation Co., The, Fulton Bldg.
 Hall & Paul, Empire Bldg.
 Handy, J. O., 612 Grant St.
 Hemz, N. J., 1519 Oliver Bldg. Equipment
 James, J. H., Carnegie Tech.
 Jones, Archibald, 828 Frick Bldg.
 Zinc, sulphuric acid
 Kinney, S. P., Bureau of Mines
 Moore & Co., W. E., 706 Union Bank.
 Furnaces for ferro alloys, calcium carbide, power installations
 Stahl, K. F., 57th St. & A. V. Ry.
 Wilson, Wm. S. 336 Lehigh Ave.
 Fuels, gases
- Pa., South Bethlehem*
 Bethlehem Foundry & Machine Co.
 Colby, Albert Ladd, 447 Lehigh St.
 Richard, J. W., University Park
- Pa., Waynesboro*
 Harbaugh, W. Le C., 122 N. Grant St.
 Metallurgy, supervision
- Porto Rico, Patillas*
 Girona, Luis A. Sugar
- R. I., Newport*
 Davoll, David, Jr. Fats, foods, pharmaceuticals, sugar
- R. I., Peace Dale*
 Bacon, Nathaniel J.
 Calder & Strickland, 4 Market St.
 Physiological, textiles
- R. I., Providence*
 Saunders & Franklin, 184 Whittier Ave. Metallurgy
- Tenn., Copperhill*
 Fairlie, A. M., P. O. Box 73
- Texas, Austin*
 Riddell, D. F., Box 285. Mining
- Texas, Dallas*
 Southwestern Laboratories, Main St.
 Building materials, oils
- Texas, Fort Worth*
 Fort Worth Laboratories, The, 204½ Houston St.
- Texas, Houston*
 Houston Laboratories, 215½ Main St.
 Cements, clays, coals, fertilizers, ores, petroleum, oils, seeds, soils, waters

Va., Dante

Callenbach, J. A.

Wash., Seattle

Bogardus Testing Laboratories, 90
Columbia St.

Campbell, Wells & Elmendorf, Pre-
fontaine Bldg.

Darrin Co., Inc., 312 Pantages Bldg.

Falkenburg & Co., 116 Yester St.
Inspection, testing, plant and smelt-
er control and design, umpiring

Hildreth & Co., 116 Yester Way

Hunt, Robert W., 4608 Bagley Ave.

Laucks, I. F., 99 Marion St. Assaying,
oils, smelter control, umpiring

Metropolitan Laboratories, 99 Marion
St.

Newhall, Chas. A., 1810 Westlake Ave.

Cement, cereals, lime, inspection,
packing house by-products

Pacific Coast Testing Laboratories,
502 Lyon Bldg.

Pittsburgh Testing Laboratories, 1810
Westlake Ave.

Powell, Jr., A. O., 5047 41st Ave., S. W.
Timber preservation

Wash., Tacoma

Bennett's Chemical Laboratory, 1142
Market St. Smelter

Wis., Madison

Burgess Laboratories, C. F., 1011-1015
E. Washington Ave.

Surface, Henry E.

Wis., Milwaukee

Wisconsin Consulting Laboratories,
220 Greenbush St.

VI. LABORATORIES

I. INDUSTRIAL LABORATORIES*

- Abbe Engineering Co., 220 Broadway, New York City. Orrin Halstead
- Abbott Laboratories, Ravenswood, Chicago, Ill. H. McCausland
- Abel & Co., E. J., Chicago, Ill.
- Acheson Graphite Co., Niagara Falls, N. Y. A. M. Williamson
- Acieral Co. of America, Newark, N. J.
- Acme Dyestuff & Chemical Co., Metuchen, N. J.
- Acme Steel and Malleable Co., Buffalo, N. Y.
- Adler Color & Chemical Works, 100 William St., New York City
- Aetna Chemical Co., Carnegie, Pa.
- Aetna Explosives Co., Inc., 120 Broadway, New York City. A. Stanley Fox
- Agawam Chemical Works, 10 Waybosset St., Providence, R. I. Erik H. Green
- Agawan Chemical Works, Providence, R. I.
- Agricultural Chemical Works, Los Angeles, Cal.
- Ainsworth & Sons, Wm., 2151 Lawrence St., Denver, Colo. A. W. Ainsworth
- Ajax Metal Co., Frankford Ave. and Richmond St., Philadelphia, Pa.
- Ajax Rubber Co., Trenton, N. J. C. S. Redfield
- Akron Extract & Chemical Co., Akron, Ohio
- Akron Varnish Co., Akron, Ohio
- Albany Chemical Co., Albany, N. Y.
- Albany Rendering Co., Albany, N. Y.
- Allan-Pfeiffer Chemical Co., St. Louis, Mo.
- Alleghany By-Product Coke Co., McKeesport, Pa.
- Allen Chemical Co., Allentown, Pa.
- Alliance Chemical Co., 176 Federal St., Boston, Mass.
- Althouse Chemical Co., Reading, Pa. C. Scott Althouse
- Alumina Co., Ltd., Inc., Widnes, England
- Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa. Earl Blough
- Amalgamated Dyestuff & Chemical Works, 75 Hudson St., New York City
- American Agricultural Chemical Co., 2 Rector St., New York City. Plant: Carteret, N. J. J. E. Breckenridge
- American Alkali & Acid Co., Bradford, Pa.
- American Ammonia Co., 220 W. 42d St., New York City
- American Anmonia Co., Boston, Mass.
- American Aniline Products, Inc., 80 Fifth Ave.
- American Beet Sugar Co., 32 Nassau St., New York City
- American Camphor Refining Co., Boston, Mass.
- American Can Co., 120 Broadway, New York City. H. A. Baker
- American Carbolite Co., Duluth, Minn.
- American Color Mfg. Co., Passaic, N. J. Elvin H. Kullheffer
- American Cyanamid Co., 511 Fifth Ave., New York City. W. S. Landis
- American Diamalt Co., 308 W. 4th St., Cincinnati, Ohio. C. von Egloffstein
- American Druggists Syndicate, Boston, Mass.
- American Gas Furnace Co., 26 John St., New York City. A. W. Machlet
- American Hard Rubber Co., 9-13 Mercer St., New York City. A. C. Buttfeld
- American Hardware Co., New Britain, Conn. Jos. C. Andrews
- American Hominy Co., Indianapolis, Ind. F. C. Atkinson
- American Indicator Paper Co., 2547 Eastwood Ave., Chicago, Ill.
- American Ink Co., 154 Nassau St., New York City
- American Linseed Co., Woolworth Bldg., New York City
- American Magnesium Corp., Niagara Falls, N. Y.
- American Oleite Co., 1404 N. Park Pl., St. Louis, Mo. C. F. Beyer
- American Optical Co., Southbridge, Mass. H. T. Reeve, Chief Scientist
- American Platinum Works, 225-231 N. J. R. R. Ave., Newark, N. J.
- American Pulley Co., 4200 Wissahickon Ave., Philadelphia, Pa.
- American Rolling Mill Co., Middletown, O. W. J. Beck, Research Director
- American Sheet & Tin Plate Co., Pittsburgh, Pa. Bradley Dewey
- American Smelting & Refining Co., 120 Broadway, New York City. Plant: Pueblo, Colo. Wm. T. Isbell
- Plant: Maurer, N. J. Chas. Mindeleff
- American Spirits Mfg. Co., Peoria, Ill.
- American Steel & Machinery Co., Mansfield, O. Melvin F. Pence

* Names of individuals shown after firm names are chief chemists or laboratory directors.

- American Steel & Wire Co., Cleveland, Ohio
 American Steel Foundries, 332 S. Michigan Ave., Chicago, Ill.
 American Sugar Refining Co., 117 Wall St., New York City
 American Synthetic Color Co., Stamford, Conn.
 American Synthetic Dyes, Inc., 61 Broad St., New York City
 American Tar Products Co., 208 S. La Salle St., Chicago, Ill.
 American Tobacco Co., 111 Fifth Ave., New York City
 American Transformer Co., 174 182 Emmet St., Newark, N. J. J. L. Schermerhorn
 American Vanadium Co., Frick Bldg., Pittsburgh, Pa.
 American Writing Paper Co., Holyoke, Mass.
 American Water Softener Co., 1011 Chestnut St., Philadelphia, Pa. Geo. Bacon
 American Zinc Co. of Tennessee, Mascot, Tenn. James E. Toomer
 Ames Chemical Works, 21 Sherman Ave. Glens Falls, N. Y. W. H. Barber
 Anaconda Copper Mining Co., Anaconda, Mont. A. L. O'Brien
 Anderson Chemical Co., Wallington, N. J.
 Aniline Products Co., Linden, N. J.
 Anderson Chemical Co., Passaic, N. J. Edward Hurshfield
 Anderson Phosphate & Oil Co., Anderson, S. C. E. L. Hutchins
 Ansbacher & Co., A. B., 527 Fifth Ave., New York City
 Ansul Chemical Co., Marinette, Wis.
 Antikamnia Chemical Co., St. Louis, Mo.
 Apex Chemical Co., Inc., 63 Park Row, New York City. S. M. Hermann
 Apothecaries Hall Co., Waterbury, Conn. H. B. Rathbun
 Arabol Mfg. Co., 100 William St., New York City. R. Bernhardt
 Arbuckle Bros., Foot of Jay St., Brooklyn, N. Y.
 Arewell Corporation, 42 Broadway, New York City. Charles B. Waters
 Arlington Co., Wilmington, Del.
 Armitage Mfg. Co., Richmond, Va.
 Armour & Co., Union Stock Yards, Chicago, Ill. Paul Rudnick
 Armour Fertilizer Works, Union Stock Yards, Chicago, Ill. Fred. S. Lodge
 Armour Glue Works, Union Stock Yards, Chicago, Ill.
 Armstrong Cork & Insulation Co., 24th St. and Allegheny River, Pittsburgh, Pa. L. E. Cover
 Arnold, Hoffman & Co., Inc., Providence, R. I. New York City: 61 Broadway J. G. Romero
 Arnold & Marshall Co., South Seekonk, Mass.
 Arrow Boiler Compound Co., Commonwealth Bldg., St. Louis, Mo. Fred. Berry
 Asbestos Shingles, Slate, & Sheathing Co., Ambler, Pa.
 Atlantic Dyestuff Co., 88 Ames Bldg., Boston, Mass. G. Meisel
 Atlantic Refining Co., 3144 Passyunk Ave., Philadelphia, Pa. F. C. Robinson
 Atlas Color Works, 322 Ninth St., Brooklyn, N. Y.
 Atlas Crucible Steel Co., Dunkirk, N. Y.
 Atlas Mineral Products Co., Lincoln, N. J.
 Atlas Powder Co., Wilmington, Del. W. E. Fletcher, Chemical Director
 Attaux F. E. & Co., 176 Purchase St., Boston, Mass.
 Ault & Wiborg Co., Cincinnati, Ohio
 Avon Sole Co., Avon, Mass.
 Avri Chemical Co., 421 Johnstown Ave., Jersey City, N. J.
 Babbitt, B. T., 11 Broadway, New York City
 Bachmeier & Co., Inc., 438 W. 37th St., New York City. Henry Gettler
 Bailey & Son, William, Wolverhampton, England
 Baird & McGuire, Inc., Holbrook, Mass.
 Baker & Co., Inc., Murray & Austin Sts., Newark, N. J.
 Baker Chemical Co., J. T., Phillipsburg, N. J.
 Baker Co., Franklin, New York City and Philadelphia
 Balback Smelting & Refining Co., 580 Market St., Newark, N. J.
 Baldwin Locomotive Works, 500 N. Broad St., Philadelphia, Pa.
 Baltic Chemical Co., 183 Duane St., New York City
 Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, Pa. J. S. Miller, Jr.
 Barclay Hobson & Co., Ltd., Manchester, England
 Bare Paper Co., Roaring Springs, Pa.
 Barro Metals Co., 167 W. 18th St., New York City
 Barker Chemical Co., Savannah, Ga. H. R. Keister
 Barr, Ltd., James G., Glasgow, Scotland R. Ritchie. Hugh Whitelaw
 Barrett & Co., N. L., 333 W. Lake St., Chicago, Ill.

- Barrett Co., 17 Battery Pl., New York City
- Bartlett Collins Glass Co., Sapulpa, Okla.
- Bartlett & Snow Co., C. O., 1040 French St., Cleveland, Ohio. Raymond Wells
- Bauer Chemical Co., Inc., 30 Irving Pl., New York City. Laboratories: Oneonta, N. Y. M. Hartmann
- Baugh Chemical Co., Clinton and 11th Sts., Baltimore, Md.
- Baugh & Sons Co., 20 S. Delaware Ave., Philadelphia, Pa.
- Bausch & Lomb Optical Co., Rochester, N. Y. Frank Kolb
- Baye Co., Inc., 117 Hudson St., New York City
- Bayway Chemical Co., Elizabeth, N. J. W. D. York
- Beach-Russ Co., 220 Broadway, New York City
- Beaver Board Co., Buffalo, N. Y.
- Beaverkill Color & Chemical Co., Cook's Falls, N. Y. R. Rosa
- Beckman & Linden Engineering Corporation, 415 Balboa Bldg., San Francisco, Cal.
- Berk & Co., Ltd., F. W., 1 Fenchurch Ave., London, E. C., England
- Berlin Mills Co., Berlin, N. H.
- Berry Bros., Detroit, Mich. John Shaw
- Bethlehem Foundry & Machine Co., 149 Broadway, New York City
- Bethlehem Steel Co., South Bethlehem, Pa.
- Bettendorf Co., Bettendorf, Iowa. J. A. Bretz
- Bettendorf Oxygen-Hydrogen Co., Bettendorf, Iowa
- Betts Co., C. G., Spokane, Wash.
- Bielenberg Co., Inc., A., 67-69 Front St., New York City
- Bilrowe Alloys Co., 1025 East F St., Tacoma, Wash.
- Binney & Smith Co., 81 Fulton St., New York City. A. F. Kitchel
- Bird & Co., J. A. & W., Boston, Mass.
- Bischoff & Co., Inc., C., 451-53 Washington St., New York City
- Bishop & Co., J., Platinum Works, Malvern, Pa.
- Blackstone Chemical Works, 531 Grosvenor Bldg., Providence, R. I.
- Blanke-Baer Chemical Co., St. Louis, Mo.
- Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow, Scotland James C. Lawrence
- Block Chemical Laboratories, 2085 La Salle St., Chicago, Ill. D. Julian Block
- Bloede Co., Victor G., Baltimore, Md. Victor G. Bloede
- Bobrick Chemical Co., 111 S. Garey St. Los Angeles, Cal. G. A. Bobrick
- Booth Co., Z. M., 120 Center St., Nutley, N. J. J. H. Smith, Jr.
- Booth Apparatus Co., Warren St., Syracuse, N. Y. Wm. Booth
- Bosson & Lane, Atlantic, Mass.
- Boston Belting Co., 84 Linden Park St., Boston, Mass. Mr. Ellinwood
- Bound Brook Chemical Corp., 82 Beaver St., New York City
- Bower Chemical Mfg. Co., Henry, 29th St. and Gray's Ferry Rd., Philadelphia, Pa.
- Bowler Chemical Co., 60 Trinity Pl., New York City
- Boyer Oil Co., Inc., 29 Broadway, New York City. E. Mas
- Bradford Dyeing Association, Bradford, R. I.
- Braun Corp., 363 New High St., Los Angeles, Cal.
- Brewer & Co., Worcester, Mass.
- Brier Hill Steel Co., Youngstown, Ohio
- Briggs Chemical Works, Amherst, Ohio
- Bristol-Myers Co., 281 Greene Ave., Brooklyn, N. Y.
- Bradley & Vrooman Co., 2629-2640 Dearborn St., Chicago, Ill.
- Brandes Co., Inc., Eighth Ave. and 34th St., New York City. F. C. Brandes
- British-American Chemical Co., Inc., Ridgefield Park, N. J. V. Weaver Smith
- Brown Co., Portland, Me.
- Brunswick Mfg. Co., 1 Peace St., New Brunswick, N. J.
- Brunswig Drug Co., 501 N. Main St., Los Angeles, Cal.
- Buchanan Products Co., C. G., 118 E. Pearl St., Cincinnati, Ohio. H. N. Burns
- Buffalo Foundry & Machine Co., Ferry and Fillmore Aves., Buffalo, N. Y.
- Buffalo Union Furnace Co., Buffalo, N. Y.
- Bulls Ferry Chemical Co., Hudson Heights, N. Y.
- Burdett Mfg. Co., 309-319 St. Johns Court, Chicago, Ill. B. C. Condit
- Burdett Oxygen & Hydrogen Co., Pittsburgh, Pa.
- Burgess & Long, Columbus, O. John R. Lower
- Burns Supply Co., E. Reed, 40-42 Withers St., Brooklyn, N. Y.

Burroughs & Co., Jas. S., 56-58 Pine St.,
N Y York City
Burroughs Welcome & Co., Snow Hill
Bldgs., London, England
Bush Co., Chas. S., Providence, R. I.
Bush & Co., inc., W. J., 100 William St.,
New York City. * Ralph S. Swinton
Butterworth-Judson Corp., 61 Broad-
way, New York City. Works: Newark,
N. J., Boston, Mass., Baltimore, Md.
Butler Chemical Co., 25 Beaver St.,
New York City
By-Products Coke Corp., Chicago, Ill.

Cabot, Inc., Samuel, 141 Milk St., Bos-
ton, Mass. Warren E. Newbury
Cadillac Chemical Co., Cadillac, Mich.
Calco Chemical Co., Woolworth Bldg.,
New York City
California Aniline & Chemical Co., 33
Clementina St., San Francisco, Cal.
B. R. Bowron
California Ink Co., San Francisco, Cal.
Calman & Co., Emil, 100 William St.,
New York City. F. H. Lane
Calorizing Corporation of America, 956-
970 Oakland Ave., Detroit, Mich. H.
H. Harris
Calumet & Hecla Mining Co., Calumet,
Mich.
Calvert Aniline & Chemical Co., 28 W.
3d St., Cincinnati, Ohio
Cambria Steel Co., Philadelphia, Pa.
Camden Chemical Co., 42 Broadway,
New York City
Camden Coke Co., Newark, N. J.
Cameron Powder Mfg. Co., Emporium,
Pa.
Campbell, C. W., 11 Cliff St.
Campbell & Co., John, 75 Hudson St.,
New York City
Canada Carbide Co., Montreal, Canada,
C. W. W. Crother
Canadian Fluxite Co., Niagara Falls,
N. Y. Dwight E. Allen
Canadian Ammonia Co., Ltd., Toronto,
Canada
Canadian Brake Shoe Co., Sherbrooke,
Can.
Canadian Cement Co., Montreal,
Canada
Canadian Consolidated Rubber Co.,
Ltd., 201 Inspector St., Montreal,
Canada. W. B. Wexand
Canadian Electrode Co., Shawinigan
Falls, Quebec
Canadian Electro-Products Co., Ltd.,
Power Bldg., Montreal, Canada. H.
W. Matheson
Canadian Ferro-Alloys Co., Shawinigan
Falls, Quebec
Canadian National Carbon Co., Ltd.,
Toronto, Canada

Canadian Salt Co., Ltd., Windsor, Ont.,
Canada. George H. P. Walker
Canton Corn Products Co., Clinton St.
and Fourth Ave., Baltimore, Md.
Capitol Chemical Co., 621 Alabama Ave.,
Congress Heights, Washington, D. C.
P. M. McKenna
Carborundum Co., Niagara Falls, N. Y.
M. L. Hartmann
Carey Mfg. Co., Philip Lockland, Cin-
cinnati, O.
Carnegie Steel Co., Pittsburgh, Pa.
John S. Unger, Mgr., Central Research
Bureau
Carnick Co., G. W., 23-27 Sullivan St.
Carpenter Steel Co., Front and Exeter
Sts., Reading, Pa.
Carrier Engineering Corporation, 39
Cortlandt St., New York City. L. L.
Lewis
Carus Chemical Co., La Salle, Ill. Leslie
Graper
Casein Mfg. Co., 11 Pine St., New York
City
Cassella Color Co., 182 Front St., New
York City
Castner Electrolytic Alkali Co., Niagara
Falls, N. Y.
Catalytic Chemical Co., Berkeley, Cal.
Dr. F. Frank
Caulk Co., L. D., Milford, Del. Paul
Poetschke
Celite Products Co., 11 Broadway, New
York City. A. S. Elsenbast
Central Dyestuff & Chemical Co., Plum
Point Lane, Newark, N. J. John
Prochazka
Central Indiana Gas Co., Muncie, Ind.
Central Iron & Coal Co., Hott Ala.
Central Scientific Co., 460 E. Ohio St.,
Chicago, Ill. H. V. Cadwell
Century Colors Corp., 182 Front St.,
New York City
Certainteed Products Corporation, St.
Louis, Mo.
Champion Chemical Works, 19 W. Aus-
tin Ave., Chicago, Ill.
Champion Fibre Co., Canton, N. C.
Charleston Chlorine Co., 120 Broadway,
New York City. Works: Belle, W.
Va.
Chatfield Mfg. Co., Cincinnati, Ohio.
H. A. Sjudahl, E. W. Kinker
Chattanooga Gas & Coal Products Co.,
Chattanooga, Tenn.
Chemical Co. of America, Inc., 28 Platt
St., New York City. S. Isermann
Chemical Construction Co., Trust Bldg.,
Charlotte, N. C.
Chemical Products Co., 93 Broad St.,
Boston, Mass.

- Chemical Products Co., 612-616 Majestic Bldg., Denver, Colo. H. Fleck
- Cheney Bros., South Manchester, Conn.
- Chicago Copper & Chemical Co., Western Union Bldg., Chicago, Ill.
- Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago, Ill. Frank E. Miller
- Chile Exploration Company Laboratories, 202d St. and 10th Ave., New York City
- Chipman Chemical Engineering Co., 95 Liberty St., New York City. C. L. Weirich
- Chiris, Antoine Co., 18 Platt St., New York City
- Chrome Color Works, Chrome, N. J.
- Chrome Steel Works, Chrome, N. J.
- Chromos Chemical Co., Inc., Aeolian Hall, New York City
- Church & Dwight Co., 27 Cedar St., New York City
- Citizens Gas Co., Majestic Bldg., Indianapolis, Ind. Samuel E. Cockerill
- Clare Mfg. Co., 8th Ave. and 34th St., New York City
- Clarke Chemical Co., St. Claire St., Wickliffe, Ohio. Graham W. Clarke
- Clayton & Jowett, Ltd., Liverpool, England. J. W. Clayton
- Clawson Co., 240 Chestnut St., Philadelphia, Pa. J. L. Clawson
- Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave., Cleveland, Ohio. A. W. Clement
- Cleveland-Cliffs Iron Co., Rockefeller Bldg., Cleveland, Ohio. E. J. Hudson
- Cleveland Twist Drill Co., Cleveland, Ohio. J. V. Emmons
- Coal Products Co., Aurora, Ill.
- Colburn Co., A., 110 N. 2d St., Philadelphia, Pa.
- Colgate & Co., Jersey City, N. J. Martin H. Illner
- Colorado Fuel & Iron Co., Boston Bldg., Denver, Colo.
- Colorado Radium Products Co., First Nat. Bank Bldg., Denver, Colo. A. H. Gow
- Columbia Chemical Constructive Co., Ft. Washington, Pa.
- Columbia Chemical Co., Frick Bldg., Pittsburgh, Pa.
- Columbia Chemical Construction Co., Fort Washington, Pa.
- Combustion Engineering Corporation, 11 Broadway, New York City
- Commercial Acid Co., Boatman's Bank Bldg., St. Louis, Mo.
- Commercial Chemical Co., 212 Essex St., Chicago, Ill.
- Commercial Research Co., Long Island City, N. Y.
- Commonwealth Color & Chemical Co., Butler St., Brooklyn, N. Y.
- Commonwealth Glue Co., 40 N. Market St., Boston, Mass.
- Condensite Co. of America, Bloomfield, N. J. Donald Kendall
- Consolidated Dental Mfg. Co., 130 Washington Pl., New York City
- Consolidated Mining & Smelting Co., Toronto, Canada
- Consolidation Coal Co., Fairmont, W. Va.
- Contact Process Co., P. O. Box 98, Buffalo, N. Y. H. von Rucker
- Cooper & Co., Chas., 194 Worth Sts., New York City. Works: Newark, N. J.
- Cooper & Cooper, 309 Broadway, New York City. Dr. Tisza
- Cooper & Nephews, William, 152-154 W. Huron St., Chicago, Ill. E. G. Reisl
- Cooper Glue Factory, Peter, 28th St. and 11th Ave., New York City
- Cooper Hewitt Electric Co., 8th and Grand Sts., Hoboken, N. J. R. D. Mailey
- Consolidated Dental Mfg. Co., 130 Washington Pl., New York City
- Consumers Refining Co., 1030 Fort Dearborn Bank Bldg., Chicago, Ill.
- Corby Co., Langdon Station, Washington, D. C. F. Alexander McDermott
- Cornbrook Chemical Co., Ltd., Stockport, England
- Corn Products Refining Co., 17 Battery Pl., New York City
- Corning Glass Works, Corning, N. Y. E. C. Sullivan
- Corrizzo Extract Co., 211-215 W. 20th St., New York City
- Cosmic Aniline Works, Inc., 8 W. Broadway, New York City. N. S. Kalman
- Crane Co., 836 S. Michigan Ave., Chicago, Ill.
- Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts., Philadelphia, Pa. N. R. Schwenk
- Cravenette Co., U. S. A., 354 Fourth Ave., New York City. Herbert Pearson
- Cremoline Disinfecting Co., 17 S. Main St., St. Louis, Mo. Jas. Varley
- Crucible Steel Co. of America, Pittsburgh, Pa.
- Cyclops Steel Co., Titusville, Pa. C. T. Evans
- Dahlstrom Metallic Door Co., Jamestown, N. J. - Henry L. Beakes
- *Daigger & Co., A., 54 W. Kinzie St., Chicago, Ill.

- Danforth Chemical Co., Willard St.,
Leominster, Mass.
- Davis-Boornonville Co., Jersey City,
N. J.
- Davis Chemical Co., 120 Broadway, New
York City
- Davison Chemical Co., South and Ger-
man Sts., Baltimore, Md.
- Dayton Steel Foundry Co., Dayton, O.
- Dean, J. Atlee, 5420 Baltimore Ave.,
Philadelphia, Pa.
- Dearborn Chemical Co., McCormick
Bldg., Chicago, Ill. D. K. French
- Dearborn Chemical Co., Smithy Bridge,
near Rochdale, England
- Dearborn Drug & Chemical Co., Chicago
Ill. W. A. Converse, Chemical Di-
rector
- Dehls & Stein, Inc., 408 W. 13th St., New
York City
- Dennison Mfg. Co., Framingham, Mass.
Frank Hawkes
- De Laval Separator Co., 165 Broadway,
New York City
- Denver Chemical Mfg. Co., 57 Laight
St., New York City
- Detroit Alkaloidal Co., 278 Bush St.,
Detroit, Mich.
- Detroit Chemical Works, Detroit, Mich.
A. B. Conner
- Detroit Copper & Brass Rolling Mills, 95
Clark Ave., Detroit, Mich. Edward
Gutsche
- Detroit Heating & Lighting Co., Detroit
Mich.
- Detroit Organic Chemical Co., Dime
Bank Bldg., Detroit, Mich.
- Detroit Range Boiler Co., 607-623 24th
St., Detroit, Mich.
- Devine Co., J. P., 1366 Clinton St.,
Buffalo, N. Y. W. H. Buchagen
- Devoe & Reynolds Co., 101 Fulton St.,
Brooklyn, N. Y.
- Diamond Crystal Salt Co., St. Clair,
Mich.
- Diamond State Fibre Co., Bridgeport,
Pa. James McIntosh
- Dickinson & Co., J. Q., Malden, W. Va.
- Dicks, David & Heller, Chicago Heights,
Ill.
- Dicks, David Co., Inc., 302 Broadway,
New York City. Geo. C. Lommel
- Didier-March Co., P. O. Box 327, Perth
Amboy, N. J.
- Dielectric Mfg. Co., St. Louis, Mo. F.
F. Kessler
- Digestive Ferments Co., Detroit, Mich.
Howard T. Graber
- Dill & Collins Co., Richmond and Tioga
Sts., Philadelphia, Pa.
- Dings Magnetic Separator Co., 671
Smith St., Milwaukee, Wis. Geo. H.
Fobian
- Disston & Sons, Inc., Henry, Philadel-
phia, Pa. Aaron Merzbacher
- Dixon Crucible Co., Joseph, Jersey City,
N. J.
- Doggett, Stanley, Cliff and John Sts.,
New York City
- Doherr, Grimm & Co., Inc., 87 Gold St.,
New York City. E. F. Ernest
- Dorr Co., The, 17 Battery Pl., New York
City. Also Denver, Colo. H. W.
Fox
- Dover By-Product Coke Co., Cleveland,
Ohio
- Douglas Co., Cedar Rapids, Iowa
- Dow Chemical Co., Midland, Mich. E.
O. Barstow
- Drackett & Sons Co., P. W., 5020 Spring
Grove Ave., Cincinnati, Ohio. B. S.
Hull
- Driver Harris Co., Railroad Ave., Harri-
son, N. J. C. J. Stultz
- Drug & Dyestuff Corporation, 120
Broadway, New York City. F. P.
Summers
- Drying Systems, Inc., 322 N. Michigan
Ave., Chicago, Ill. R. E. Lippart
- Dubarry et Cie., 81 Brompton Rd.,
London, S. W., England
- Ducktown Sulphur, Copper & Iron Co.,
Isabella, Tenn.
- Du Pont de Nemours & Co., E. I., du
Pont Bldg., Wilmington, Del. Charles
L. Reese, Chemical Director
- Duquesne Reduction Co., Pittsburgh,
Pa. Chas. G. Snyder
- Duriron Castings Co., 90 West St., New
York City
- Dwight Mfg. Co., 14 S. Jefferson St.,
Chicago, Ill. F. B. Gilbert
- Dwight & Lloyd Sintering Co., 29 Broad-
way, New York City. B. W. Hyde
- Dye Products & Chemical Co., Inc., 200
Fifth Ave., New York City. C. K.
Simon
- Eagle Color & Chemical Co., 4 Cedar St.,
New York City
- Eagle Printing Ink Co., 265 Gates Ave.,
Jersey City, N. J. Chas. Muzzio
- Eastern Chemical Works, Elmwood,
Conn.
- Eastern Electrochemical Co., South
Brewer, Mo.
- Eastern Mfg. Co., Bangor, Me. H. H.
Hanson
- East Jordan Chemical Co., East Jordan,
Mich.
- Eastman Kodak Co., 343 State St.,
Rochester, N. Y.
- Economy Soap Products Co., Dayton,
Ohio
- Eddy Chemical Co., 1189 Harrison Ave.,
Cincinnati, Ohio

- Eddy Co., E. B., Hull, Canada
 Edgar Zinc Co., Cherryvale, Kansas
 Edgertyn Aniline Corp., 118 William St., New York City
 Edison Central Research Lab., Silver Lake, N. J. Harold N. Cox
 Edison Portland Cement Co., Stewartsville, N. J.
 Edison, Inc., Thomas A., West Orange, N. J.
 Eimer & Amend, 205-211 Third Ave., New York City
 Eissing Chemical Co., 225 Fifth Ave., New York City
 Ekenberg Co., Cortland, N. Y.
 Electrical Chemical Works, 797 Lexington Ave., Brooklyn, N. Y.
 Electric Arc Cutting & Welding Co., 222 Halsey St., Newark, N. J. E. S. Hurd
 Electric Reduction Co., Ltd., Washington, Pa.
 Electric Smelting & Aluminum Co., Lockport, N. Y.
 Electric Storage Battery Co., Philadelphia, Pa. George M. Howard
 Electro Bleaching Gas Co., Niagara Falls, N. Y.
 Electro Chemical Co., 111 Court St., Dayton, Ohio. John Gerstle
 Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St., New York City. I. H. Levin
 Electrolytic Zinc Co., Inc., 16th St. and 2d Ave., Canton, Baltimore, Md. (P. O. Address) Colgate, Baltimore Co., Md.
 Electro-Metallurgical Co., 30 E. 42d St., New York City
 Electro Metals, Ltd., Welland, Ont., Canada
 Electron Chemical Co., 120 Exchange St., Portland, Me.
 Eli Lilly & Co., Indianapolis, Ind. F. R. Eldred
 Elyria Enameled Products Co., Elyria, O. Emerson P. Poste
 Empire Chemical Co., 149 Broadway, New York City
 Empire Refineries, Inc., Unity Bldg., Tulsa, Okla. Sidney Bern
 England Walton & Co., Third and Vine Sts., Philadelphia, Pa. C. W. Reilly
 Essanay Products Co., 200 W. Superior St., Chicago, Ill. Rudolph Peiser
 Essential Oil Specialties Co., Inc., Grassland, Del. Co., Pa. Gustave Mahlek
 Everlasting Valve Co., 2 Rector St., New York City. W. G. Wilson
 Exchange By-Products Co., Corona, Cal. C. P. Wilson
 Exolon Co., 156 Sixth St., Cambridge, Mass. H. T. Kalmus
 Fabricated Steel Products Corporation, Leetonia, Ohio. Warren B. Thompson
 Fairbank Co., N. K., 143 Dearborn St., Chicago, Ill.
 Fairmont Chemical Co., Fairmont, W. Va.
 Farmers Fertilizer Co., Columbus, Ohio
 Fassett Co., C. M., 209 N. Wall St., Spokane, Wash. H. H. Robinson
 Faultless Rubber Co., Ashland, Ohio. E. F. De la Croix
 Feculose Co. of America, Ayer, Mass., John Traquair
 Federal Chemical Co., Louisville, Ky.
 Federal Dyestuff & Chemical Corporation, Kingsport, Tenn.
 Fels & Co., Philadelphia, Pa.
 Ferguson Bros., 109 Chestnut St., Philadelphia, Pa.
 Filter Fabrics Co., 321 Felt Annex, Salt Lake City, Utah. A. L. Genter
 Findlay Clay Pot Co., Washington, Pa. Donald W. Ross
 Fine Colors Co., 21-29 McBride Ave., Paterson, N. J. Karl Ellwanger
 Fisk Rubber Co., Chicopee Falls, Mass.
 Fleischmann Co. of Calif., 1236 Minnesota St., San Francisco, Calif. Henry Arnstein
 Fleischmann Mfg. Co., Peekskill, N. Y.
 Fleming Chemical Co., 1711 Crawford Rd., Cleveland, Ohio
 Fletcher Works, Glenwood Ave. and 2d St., Philadelphia, Pa. Leslie Griscom
 Flint Kote Co., 88 Pearl St., Boston, Mass. H. C. Platts
 Florasynth Laboratories, Inc., 231 Pearl St., New York City. Alexander Katz
 Florida Wood Products Co., Jacksonville, Fla. E. B. Smith
 Foote Mineral Co., 107 N. 9th St., Philadelphia. H. C. Meyer
 Ford Co., The J. B., Wyandottë, Mich. H. R. Browne
 Ford Motor Co., Detroit, Mich.
 Franco-American Chemical Works, Carlstadt, N. J. Leo Trubek
 Franco-Swiss Dyes, Inc., 61 Broadway, New York City
 Frank Tea & Spice Co., Cincinnati, Ohio
 Fraser Tablet Co., 453 19th St., Brooklyn, N. Y.
 Freeport Sulphur Co., 61 Broadway, New York City. Geo. E. Jenks
 Fries & Bros., Alex., 312 E. 2d St., Cincinnati, Ohio
 Fries & Fries, 1501 W. 6th St., Cincinnati, Ohio. R. C. Fries, G. G. Fries
 Fritzsche Bros., 82-84 Beekman St., New York City
 Fuller-Lehigh Co., Fullerton, Pa.

- Galbraith Chemical Co., 5139 Germantown Ave., Philadelphia, Pa.
- Garford Motor Truck Co., Lima, O. Walter Arthur
- Gas Oil Co. of Indiana, 1013 Peoples Gas Bldg., Chicago, Ill.
- Gazzolo Drug & Chemical Co., 119-123 S. Green St., Chicago, Ill.
- Geisenheimer & Co., 134 Cedar St., New York City. Felix Fanderlik
- Gemmill & Co., Wm. N., 142 Queen St., Glasgow, Scotland
- General Bakelite Co., 2 Rector St., New York City
- General Ceramics Co., 50 Church St., New York City
- General Chemical Co., 5 Broad St., New York City
- General Electric Co., Cleveland, O. National Lamp Works. Edward P. Hyde
- General Electric Co., Lynn, Mass. Edward R. Berry
- General Electric Co., Schenectady, N. Y. W. R. Whitney
- General Filtration Co., Cutler Bldg., Rochester, N. Y. F. E. Leiby
- General Motors Co., Pontiac, Mich.
- General Petroleum Corporation, Los Angeles, Cal. E. H. Leshe
- General Roofing Mfg. Co., General Office, St. Louis, Mo.
- General Supply Co., Market St. and Bertrand Ave., Perth Amboy, N. J. A. L. Ramsay
- Genesee Chemical Co., Genesee, Pa.
- Genesee Pure Food Co., Le Roy, N. Y.
- Geophysical Laboratory, Carnegie Institute, Washington, D. C.
- Gibbs Preserving Co., Baltimore, Md.
- Gilpin, Langdon & Co., Inc., 300-302 W. Lombard St., Baltimore, Md.
- Glidden Co., Cleveland, Ohio. Mr. Walthe
- Globe Chemical Co., 1135 Regent Ave., Cincinnati, Ohio. Robert C. Grote
- Globe Soap Co., 3d and Walnut Sts., Cincinnati, Ohio
- Gohren Mfg. Co., Main St., Warren, Ohio. H. B. Robinson
- Goldschmidt Thermit Co., Jersey City, N. J. S. J. Lubowsky
- Goodrich Co., B.F., Akron, Ohio
- Goodyear Tire & Rubber Co., Akron, Ohio
- Gordon Dryer Corporation, 39 Cortlandt St., New York City. Gordon D. Harris
- Gracif Chemical Co., Pomeroy, Ohio. R. C. Lord
- Graham, Hinkley & Co., 135 Front St., New York City
- Grant Chemical Co., J. C., East St. Louis, Ill.
- Grasselli Chemical Co., Cleveland, Ohio
- Grasselli Powder Co., Cleveland, O.
- Graton & Knight Mfg. Co., Franklin St. Worcester, Mass. F. H. Small
- Graver Tank Works, East Chicago, Ind.
- Great Western Electrochemical Co., San Francisco, Calif.
- Greiner Co., Emil, Fulton and Cliff Sts., New York City. Paul Todtschinder
- Guertner Co., Wm., Chicago, Ill.
- Gulf Refining Co., Pittsburgh, Pa.
- Gulf States Steel Co., Birmingham, Ala.
- Hagstoz & Son, T. B., 709 Sansom St., Philadelphia, Pa. Thos. Hurley, Jr.
- Halecomb Steel Co., Syracuse, N. Y. George M. Berry
- Hall, George D. A., Manchester, England. George D. A. Hall
- Hall Van Gorden Co., 1382 W. 9th St., Cleveland, Ohio
- Halsey Bros., Co., 30 N. Wabash Ave., Chicago, Ill.
- Hamilton-Otto Coke Co., Hamilton, Ohio
- Hammersley Mfg. Co., 232 Greenwich St., New York City
- Hammond Chemical Works, Inc., 21 Park Row, New York City
- Hanovia Chemical & Mfg. Co., Newark, N. J.
- Hansen's Laboratory, Inc., Chr., Little Falls, N. Y. Karl J. Monrad
- Harbison Walker Refractories Co., Pittsburgh, Pa. R. H. H. Pierce
- Hardy, Inc., Chas., 50 Church St., New York City
- Harlem Chemical Co., 1357 Park Ave., New York City
- Harmer Laboratories Co., 1704 Market St. Philadelphia, Pa.
- Harriman Food Research Laboratory, 527 Fifth Ave., New York City
- Harrison Works, 25th and Gray's Ferry Rd., Philadelphia, Pa.
- Harrison Safety Boiler Works, 17th St. and Alleghany Ave., Philadelphia, Pa. J. D. Yoder
- Harshaw, Fuller & Goodwin Co., 100 William St., New York City. Also Cleveland, Ohio
- Hartford Laboratory Co., Inc., Hartford, Conn.
- Hawaiian Fertilizer Co., Ltd., 14 S. Queen St., Honolulu, Hawaii
- Haynes Stellite Co., Kokomo, Ind. M. J. Udy
- Hazel Atlas Glass Co., Washington, Pa. A. L. Duval
- Heald & Co., Inc., John H., Lynchburg, Va.

- Hegeler Zinc Co., Danville, Ill.
 Heil Chemical Co., Henry, 210-214 S. Fourth St., St. Louis, Mo.
 Hellenic Chemical & Color Co., Inc., 427 W. 13th St., New York City. Jos. Lanz
 Heller & Merz Co., 505 Hudson St., New York City
 Hemingway, Inc., Frank, 115 Broadway, New York City
 Hercules Powder Co., Wilmington, Del. G. M. Norman, C. A. Higgins
 Herman & Herman, 6 Church St., New York City. Henry H. Mandle
 Herrick-Voigt Chemical Corporation, 1 Liberty St., New York City. Wm. H. Thomas
 Hess Steel Corporation, Baltimore, Md. Frank T. Sisco
 Heyden Chemical Works, 135 William St., New York City. Jas. S. Branegan
 Hill Extract & Flavoring Co., Houston, Texas. B. Hill
 Hires Condensed Milk Co., 913 Arch St., Philadelphia, Pa.
 Hoffman-LaRoche Chemical Works, 440 Washington St., New York City
 Holland Aniline Co., Holland, Mich.
 Holland-S. Louis Sugar Co., Decatur, Ind.
 Holland Aniline Co., Holland, Mich.
 Holliday-Kemp Co., 91 William St., New York City
 Holliday-Rea & Son, 160 Franklin St., New York City
 Hooker & Co., J. L., 314 N. 3d St., Philadelphia, Pa.
 Hooker Electrochemical Co., 40 Wall St., New York City
 Hord Color Products Co., Sandusky, Ohio. Robert M. Cole
 Horlick, William, Jr., Horlick's Malted Milk Co., Racine, Wis.
 Horn Co., A. C., Horn Bldg., Long Island City, N. Y. A. C. Horn, John Manson
 Horn Hollander Co., Horn Bldg., Long Island City, N. Y. John Manson
 Hoskins Mfg. Co., Detroit, Mich. J. M. Lahr
 Houghton & Co., E. F., Third, American and Somerset Sts., Philadelphia, Pa. Geo. W. Pressell
 Hoyt Metal Co., Boatmen's Bank Bldg., St. Louis, Mo.
 Hub Dyestuff & Chemical Co., 595 S. 7th St., South Boston, Mass.
 Huff Electrostatic Separator Co., 60 Indiana St., Boston Mass. F. R. Johnson
 Hungerford & Terry, Inc., 120 Milk St., Boston, Mass.
 Hunter Dry Kiln Co., 26th and Cornell Ave., Indianapolis, Ind. Harry Hunter, A. B. Stonex
 Huron Milling Co., Harbor Beach, Mich.
 Hurty-Peck & Co., 222-224 E. Ohio St., Indianapolis, Ind.
 Hydraulic Press Mfg. Co., Mt. Gilead, Ohio. F. E. Stevenson
 Illinois Glass Co., Alton, Ill. Chas. Levis
 Illinois Steel Co., Chicago, Ill. William Brady
 Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.
 Imperial Color Works, Inc., Glens Falls, N. Y. F. J. Wich
 Import Chemical Co., 162 First St., Jersey City, N. J. F. S. Miles
 Improved Appliance Co., 413-19 Kent Ave., Brooklyn, N. Y.
 Independent Chemical Co., 72 Front St., New York City
 Independent Salt Co., 44 Whitehall St., New York City. Chas. J. Werner
 Industrial Chemical Co., 200 Fifth Ave., New York City. Leonard Wickenden
 Industrial Chemical Co., Inc., Box 1288, Providence, R. I. Thomas H. Roberts
 Industrial Works, Bay City, Mich. H. C. Campbell
 Indiana Coke & Gas Co., Terre Haute, Ind.
 Inland Steel Co., Chicago, Ill.
 Innis, Speiden & Co., Inc., 40 Cliff St., New York City
 International Agricultural Corporation, 165 Broadway, New York City
 International Molybdenum Co., Orilla, Ont., Canada
 International Nickel Co., 43 Exchange Pl., New York City. John F. Thompson
 International Oxygen Co., 796 Frelinghuysen Ave., Newark, N. J. Edward O. Benjamin
 International Paper Co., 30 Broad St., New York City
 International Silver Co., Meriden, Conn.
 Interstate Chemical Co., 667 Garfield Ave., Jersey City, N. J. Paul T. Krause
 Isco Chemical Co., Inc., 46 Cliff St., New York City
 Jacksonville Chemical Mfg. Co., Jacksonville, Fla.
 Jaeck Co., Louis, 257 Front St., New York City
 Jaenecke-Ault Co., Ave. B and Wright St., Newark, N. J. Warren D. Yearsley
 Jarecki Chemical Co., Cincinnati, Ohio

- Jeannette Glass Co., Jeannette, Pa. A. W. Crownover.
 Jeffry Mfg. Co., Columbus, Ohio. C. C. Cleverger
 Jessup & Moore Paper Co., Philadelphia, Pa.
 Jobbins, Inc., Wm. F., 923 N. Lake St., Aurora, Ill. F. H. Jobbins
 Johnson & Johnson, New Brunswick, N. J.
 Johnson Co., H. A., 221 State St., Boston, Mass.
 Johnson Co., John, 37th St. and 2d Ave. Brooklyn, N. Y. J. Homer Stover
 Joslin-Schmidt Co., The, 3223 Spring Grove Ave., Cincinnati, Ohio. F. A. Nantz
 Justrite Mfg. Co., 2061 Southport Ave., Chicago, Ill. O. W. Anderson
 Kalbfleish Corporation, 31 Union Sq. West, New York City. Plant: Erie, Pa. Chas. W. Moore
 Kelly Springfield Tire Co., Broadway and 57th St., New York City
 Kendall Mfg. Co., Providence, R. I.
 Kestner Evaporator Co., Philadelphia, Pa. J. Resines
 Kettle River Co., Madison, Ill. Harry W. Foster
 Keystone Steel & Wire Co., Peoria, Ill. Julian Schueler
 King & Co., E. & F., 367-369 Atlantic St., Boston, Mass.
 Kingsbury, H. P. D., Redlands, Cal. H. P. D. Kingsbury
 King Chemical Co., Bound Brook, N. J.
 Kirk & Co., J. S., 106 E. Austin Ave., Chicago, Ill.
 Kistler, Lesh & Co., Morganton, N. C. J. S. Rogers
 Klipstein & Co., A., 644 Greenwich St., New York City. J. Machsatz
 Knowles-Bradley Co., 88 Wall St., New York City. Stephen Bistran
 Kohnstamm & Co., H., 87 Park Pl., New York City. L. S. Kohnstamm
 Kolynos Co., 130 Bristol St., New Haven, Conn.
 Koven & Bro., L. O., 154 Ogden Ave., Jersey City, N. J. G. B. Furman
 Koppers Co., H., 511 Wood St., First National Bank Bldg., Pittsburgh, Pa. F. W. Sperr, Jr.
 Kress & Owen Co., 361 Pearl St., New York City
 Kullman-Salz & Co., Inc., Benicia, Cal., and Wells Fargo Express Bldg., San Francisco, Cal.
 Kuttroff, Pickhardt & Co., Inc., 128 Duane St., New York City. A. Lendle
 La Belle Iron Works, Steubenville, Ohio
 Laboratory Materials Co., 7404-6 Calumet Ave., Chicago, Ill.
 Lackawanna Chemical Co., Olean, N. Y. E. E. Currier
 Lackawanna Steel Co., Lackawanna, N. Y.
 Laclede Gas Light Co., St. Louis, Mo.
 Laclede Christy Clay Products Co., 1673 Railway Exchange Bldg., St. Louis, Mo. C. W. Berry
 Lakeland Phosphate Co., Lakeland, Fla. C. D. McDowall
 Lakewood Chemical Co., Citizens Bldg., Cleveland, Ohio
 Lamar & Bros., Inc., John S., 80 Maiden Lane, New York City
 L. & R. Organic Products Co., Inc., 8 Gold St., New York City
 Lambert Pharmacal Co., 2101 Locust St., St. Louis, Mo.
 Lamie Chemical Co., Huntington W. Va.
 Lamson & Bro., Inc., John S., 80 Maiden Lane, New York City. M. Melick
 Latimer Chemical Co., Grand Junction, Colo. H. B. Goodwin
 Lautz Bros. & Co., 44 Hanover St., Buffalo, N. Y.
 Lavino & Co., E. J., Bullitt Bldg., Philadelphia, Pa. E. J. Lavine
 Leavitt & Co., C. W., 30 Church St., New York City. W. F. F. Leavitt
 Leeds & Northrup Co., Philadelphia, Pa. Irving B. Smith, Research Director
 Lehn & Fink, Inc., 120 William St., New York City. William H. Gesell
 Lenning & Co., Charles, 112 S. Front St., Philadelphia, Pa.
 Lennox Chemical Co., 1201 E. 55th St., Cleveland, Ohio. A. S. Allen
 Lever Bros., Co., Cambridge, Mass.
 Larkin Co., 680 Seneca St., Buffalo, N. Y.
 Lewis Mfg. Co., F. J., 2500 S. Robey St., Chicago, Ill. W. B. Murphy, G. Heyl (Control)
 Lewis, John D., 1209 Turks Head Bldg. Providence, R. I. Oliver L. Danforth
 Lieber & Co., H., Inc., 14 Platt St., New York City
 Lignum Chemical Works, Brooklyn, N. Y.
 Lippsay Light Co., 161 E. Grand Ave., Chicago, Ill. O. N. Berndt
 Linton Gas Co., Linton, Ind.
 Lister Agricultural Chemical Works, Newark, N. J.
 Little, Inc., Arthur D., 93 Broad St., Boston, Mass.
 Louisville Soap Co., 2440 Floyd St., Louisville, Ky.
 Lower California Chemical Co., Los Angeles, Cal.
 Lucas & Co., Inc., John, Gibbsboro, N. J.

- Lungwitz, Emil E., 30 Church St., New York City
- Lunkenheimer Co., Cincinnati, Ohio
George K. Elliott
- MacAndrews & Forbes Co., 3rd St. and Jefferson Ave., Camden, N. J.
- Madderton & Co., Ltd., Loughton, Essex, England. C. S. Mummery
- Magma Copper Co., Superior, Ariz.
Howard Willey
- Magnetic Mfg. Co., 764 Windlake Ave., Milwaukee, Wis. J. P. Butler
- Magnolia Metal Co., 115 Bank St., New York City. E. C. Miller, Jr.
- Mallinckrodt Chemical Works, 3600 N. 2d St., St. Louis, Mo.
- Mallons & Co., Chester, N. Y. W. J. Beer
- Maltbie Chemical Co., 250 High St., Newark, N. J.
- Malt-Diastase Co., 79 Wall St., New York City. L. V. Foelkersamb
- Manville Co., Providence, R. I.
- Marden, Orth & Hastings Corp., 61 Broadway, New York City. Ralph S. Doubleday
- Marx & Rawolle, Inc., 100 William St., A. C. Langmuir. New York City: Factory: 9 Van Brunt St., Brooklyn, N. Y.
- Mathieson Alkali Works, Inc., Saltville, Va.; Niagara Falls, N. Y. R. E. Gegenheimer
- May & Co., Inc., Frank L., 99 John St., New York City
- McCord Mfg. Co., 2587-2637 E. Grand Blvd., Detroit, Mich. J. D. Harris
- McCormick & Co., Baltimore, Md.
- McKean Chemical Co., Williamsport, Pa.
- McKesson & Robbins, 91 Fulton St., New York City
- McLaughlin Chemical Works, Inc., 1715 5th St., S. E., Minneapolis, Minn.
- Meade & Co., Richard K., Baltimore, Md. Richard K. Meade.
- Merck & Co., 45 Park Pl., New York City: Factory, Rahway, N. J.
- Merrell-Soule Co., Syracuse, N. Y.
- Merrill Metallurgical Co., 121 Second St., San Francisco, Cal.
- Merrimac Chemical Co., 40 Central St., Boston, Mass.
- Metal & Thermit Corp., 120 Broadway, New York City
- Metal Products Co., 100 S. Jefferson St., Chicago, Ill. Dr. Kramer
- Meth-O-Lene Co., Inc., 81 Fulton St., New York City
- Metz Laboratories, H. A., 122 Hudson St., New York City
- Meyer & Sons, J., 480 Bourse Bldg., Philadelphia, Pa. Fred. L. Meyer
- Miami Paper Co., West Carrollton, O.
- Michigan Alkali Co., Ford Bldg., Detroit, Mich. Herbert R. Browne
- Michigan Ammonia Works, Meldrum St., Detroit, Mich.
- Michigan Carbon Works, Carbon and Forman Aves., Detroit, Mich.
- Michigan Chemical Co., Bay City, Mich.
- Michigan Drug Co., Detroit, Mich.
- Michigan Electrochemical Co., N. State St., Menominee, Mich. A. R. White
- Middlesex Aniline Co., Inc., 149 Broadway, New York City. Jas. Baradin
- Midland Chemical Co., 80 E. Jackson Blvd., Chicago, Ill. J. C. Burdette
- Milvale Steel & Ordnance Co., Widener Bldg., Philadelphia, Pa.
- Milligan & Higgins Glue Co., 222 Front St., New York City
- Milwaukee Coke & Gas Co., Milwaukee, Wis.
- Milwaukee Locomotive Mfg. Co., Milwaukee, Wis. J. R. Houston
- Miner-Edgar Co., 52-62 Warren St., Brooklyn, N. Y. Harold W. Hanes
- Minnesota By-Product Coke Co., St. Paul, Minn.
- Minnesota Steel Co., Duluth, Minn.
- Missouri Chemical Works, Cincinnati, Ohio
- Mojonnier Bros. Co., 833 W. Jackson Blvd., Chicago, Ill. F. Mojonnier
- Monahan Antiseptic Co., 166-172 Curtis St., Chicago, Ill.
- Monarch Chemical Co., 141 Broadway, New York City
- Monmouth Chemical Co., Keyport, N. J. Wall St., New York City. E. Schwartz
- Monroe Chemical Co., Fairport, N. Y.
- Monroe Color & Chemical Co., Quincy, Ill. H. E. Kiefer
- Monsanto Chemical Works, 1800 S. Second St., St. Louis, Mo.
- Montcalm Chemical Works, Indianapolis, Ind.
- Mont Color & Chemical Works, Monticello, N. Y.
- Montclair Water Co., Paterson, N. J.
- Montreal Power & Water Co., 11 Place d'Armes, Montreal, Canada
- Moore Bros. Co., Elizabeth, N. J.
- Morrill & Co., Geo. H., Norwood, Mass.
- Morris & Co., Chicago, Ill.
- Morris Machine Works, Baldwinsville, N. Y. A. B. Davis
- Mosso Laboratories, C. A., 2253 Warren Ave., Chicago, Ill.
- Mott Iron Works, The J. L., 118 Fifth Ave., New York City

- Mountain Copper Co., Ltd., 332 Pine St., San Francisco, Cal.
- Mt. Union Tanning & Extract Co., Mt. Union, Pa. J. H. Yocum, B. D. Westernfelder
- Mulford & Co., H. K., Philadelphia, Pa.
- Munning Loeb Co., Matawan, N. J. C. F. Toole
- Mutual Chemical Co. of America, 55 John St., New York City
- National Ammonia Co., St. Louis, Mo., Philadelphia, Pa., New York, N. Y. H. Danmubaum
- National Ammonia Co. of Pa., Del. Ave and Vankirk St., Frankford, Philadelphia, Pa.
- National Aniline & Chemical Co., 21 Burling Slip, New York City
- National Biscuit Co., New York City
- National Brake & Electric Co., Milwaukee, Wis. J. R. Houston
- National Carbide Corporation, Bluefield, W. Va.
- National Carbon Co., Cleveland, Ohio
- National Chemical Co., Syracuse, N. Y.
- National Electrolytic Co., Niagara Falls, N. Y.
- National Gum & Mica Co., 59th St. and 11th Ave., New York City. J. Alexander
- National Lamp Works of General Electric Co., E. 152d St., Cleveland, Ohio
- National Lead Co., 111 Broadway, New York City. Gustave W. Thompson
- National Oil Products Co., Harrison, N. J. R. Bockmeyer
- National Tube Co., Pittsburgh, Pa.
- National Vaccine & Anti-Toxin Laboratories, Washington, D. C.
- National Zinc Co., 61 Broadway, New York City Works: Kansas City, Mo.
- Natural Carbide Gas Co., McClellan, N. J. Stuart Lindslev
- Naugatuck Chemical Works, Inc., Naugatuck, Conn. C. E. Ott
- N. & G. Taylor Co., Inc., 300 Chestnut St., Philadelphia, Pa.
- Neponset Color Co., Hyde Park, Boston, Mass.
- New Brunswick Chemical Co., New Brunswick, N. J.
- New England Confectionery Co., 253 Summer St., Boston, Mass.
- New England Fuel & Transportation Co., 111 Devonshire St., Boston, Mass. A. B. Way
- New Haven Gas Light Co., New Haven, Conn.
- New Jersey Zinc Co., 55 Wall St., New York City. J. A. Singmaster, Mgr. Tech. Dept.
- New Orleans Acid & Fertilizer Co., Gretna, La.
- New Process Metals Co., New York City.
- Newport Chemical Works, Inc., First National Bank Bldg., Milwaukee, Wis. Plant: Carrollville, Wis. M. A. Ceresole, Chemical Director
- Newport Turpentine & Rosin Co., Pensacola, Fla. W. B. Logan
- New York Color & Chemical Co., Inc., 212 Pearl St., New York City
- New York Quinine & Chemical Works, 114 William St., New York City
- New York Sugar Trade Laboratory, 80 South St., New York City.
- Newton Chemical Co., Olean, N. Y.
- Newsholme, G. T. W., Ltd., Sheffield, England
- Niagara Alkali Co., Niagara Falls, N. Y. J. R. MacMillan
- Niagara Coke Corporation, 6 Church St., New York City
- Niagara Electrochemical Co., 100 William St., New York City
- Niagara Smelting Corporation, Niagara Falls, N. Y.
- Nichols Copper Co., 25 Broad St., New York City. W. C. Ferguson
- Nitrated Chemicals Co., Kingston, N. Y.
- Noble Electric Steel Co., Heroult, Calif. F. W. Bunyan
- North American Chemical Co., Bay City, Mich.
- North Shore Gas Co., Waukegan, Ill.
- Northern Aluminum Co., Oliver Bldg., Pittsburgh, Pa.
- Northwest Magnesite Co., Chewelah, Wash. C. D. Dolman
- Northwestern Chemical Co., Marietta, Ohio. F. R. Hall
- Northwestern Iron Co., Milwaukee, Wis.
- Northwestern States Portland Cement Co., Mason City, Iowa
- Nortmann Duffke Fdy. Co., 1210 27th Ave., Milwaukee, Wis. E. B. Lemon
- Norton Co., New Bond St., Worcester, Mass.
- Norton Laboratories, 296 Madison Ave., New York City. J. B. Neal
- Norwich Chemical Co., East Smethport, Pa.
- Norwich Pharmacal Co., Norwich, N. Y. J. P. Snyder
- Oakes Mfg. Co., Long Island City, N. Y.
- Oakland Chemical Co., 10 Astor Pl., New York, N. Y.
- Obex Co., The, Marietta, Ohio
- O'Brien Varnish Co., Washington and Johnson Sts., South Bend, Ind. S. J. McGrath
- Ohio Chemical & Mfg. Co., 1177 Marquette Rd., Cleveland, Ohio

- Ohio Match Co., Wadsworth, O. Hugo Schapiro
- Ohio Salt Co., Wadsworth, Ohio. Walter Laib
- Oldbory Electrochemical Co., Niagara Falls, N. Y. F. A. Lidbury
- Oliver Chemical Co., Mount Eden, Cal.
- Organic Products Corporation, 469 State St., New York City
- Otto Chemical Co., Burrows, McKean Co., Penn.
- Oxford Paper Co., 200 Fifth Ave., New York City. Plant: Rumford, Me. M. L. Griffin
- Pacific Chemical Co., Los Angeles, Cal.
- Pacific Coast Borax Co., 100 William St., New York City
- Pacific Coast Coal Co., Reuton, Wash.
- Pacific Electro Metals Co., 415 Balboa Bldg., San Francisco, Cal.
- Palo Co., 90-94 Maiden Lane, New York City. C. T. Thies
- Pantasote Leather Co., Passaic, N. J.
- Parke, Davis & Co., Detroit, Mich. John M. Francis
- Patch Co., E. L., Montrate Ave., Stoneham, Mass.
- Paxson Co., J. W., 1021 N. Delaware Ave., Philadelphia, Pa. Walter C. Platt
- Peacock Chemical Co., 112 N. 2d St., St. Louis, Mo.
- Pease Co., C. F., 219 W. Institute Pl., Chicago, Ill. E. V. Manuel
- Peerless Chemical Co., 506 W. 42d St., New York City
- Peerless Color Co., Inc., Bound Brook, N. J. R. W. Cornelison
- Penn Chemical Works, 1322 Washington Ave., Philadelphia, Pa.
- Pennsylvania Color Mfg. Co., 248 Chestnut St., Philadelphia, Pa.
- Pennsylvania Salt Mfg. Co., Widener Bldg., Philadelphia, Pa.
- Pennsylvania Smelting Co., First National Bank Bldg., Pittsburgh, Pa.
- Pennsylvania Wire Glass Co., 914 Pennsylvania Bldg., Philadelphia, Pa.
- Perfenol Products Co., Inc., 39 W. 38th St., New York City
- Permutit Co., 440 Fourth Ave., New York City. T. R. Duggan
- Perolin Co. of America, Woolworth Bldg., New York City
- Pfaudler Co., The, Rochester, N. Y. Wm. F. Zimmerli
- Pfeiffer Chemical Co., 500 N. Commercial St., St. Louis, Mo.
- Pfister & Vogel Leather Co., Milwaukee, Wis.
- Pfizer & Co., Inc., Charles, 81 Maiden Lane, New York City
- Phelps Dodge Corporation, 99 John St., New York City. G. D. Van Arsdale
- Philadelphia Drying Machinery Co., 6721 Germantown Ave., Philadelphia, Pa.
- Philadelphia Quartz Co., 121 S. Third St., Philadelphia, Pa. James G. Vail
- Philadelphia Suburban Gas & Electric Co., Chester, Pa.
- Phoenix Chemical Co., Ltd., Accrington, England. H. Foxen
- Phosphorous Compounds Co., Niagara Falls, N. Y.
- Physician's Laboratory Supply Co., 121 N. Wabash Ave., Chicago, Ill. Frank E. Challis
- Pittsburgh By-Product Coke Co., Pittsburgh, Pa.
- Pittsburgh Electro-Galvanizing Co., Union Bank Bldg., Pittsburgh, Pa.
- Pittsburgh Metallurgical Co., Montour Junction, Pa.
- Pittsburgh Plate Glass Co., Pittsburgh, Pa. Frederick Gelstharp
- Pompeian Co., The, Coca Cola Bldg., Baltimore, Md.
- Portland Oxygen & Hydrogen Co., Portland, Oregon
- Potter Drug & Chemical Corporation, 135 Columbus Ave., Boston, Mass.
- Powers-Weightman-Rosengarten Co., Philadelphia, Pa.
- Precision Instrument Co., Fort and Wayne Sts., Detroit, Mich. Wm. L. De Baufre
- Primos Chemical Co., Primos, Pa.
- Process Engineers, Ltd., 20 McGill St., Montreal, Canada
- Proctor & Gamble Distributing Co., Cincinnati, Ohio
- Provident Chemical Works, 8011 Idaho St., St. Louis, Mo. J. T. Meckstroth
- Provost Engineering Corporation, 220 Broadway, New York City. Edward J. Beach
- Pumpherson Oil Co., Ltd., The, Glasgow, Scotland. E. M. Bailey
- Pyrites Co., Roanoke, Va. John E. Haig
- Pyroelectric Instrument Co., 636 E. State St., Trenton, N. J. H. L. Saums
- Quabaug Rubber Co., N. Brookfield, Mass.
- Quaker City Rubber Co., 629 Market St., Philadelphia, Pa.
- Radium Luminous Material Corporation, 55 Liberty St., New York City. W. S. A. Sochocky
- Rahway Coal Tar Products Co., 45 Park Place, New York City

- Rare Metal Products Co., Cortland St., Belleville, N. J. F. W. Sehl
- Raritan Copper Works, Perth Amboy, N. J.
- Raymond Lead Co., 735 S. Washtenaw Ave., Chicago, Ill.
- Reade Bros. & Co., Ltd., Wolverhampton, England. T. H. Reade
- Reardon Glue Mfg. Co., St. Louis, Mo.
- Rector Chemical Co., 2 Rector St., New York City
- Redmanol Chemical Products Co., 636 W. 22d St., Chicago, Ill. F. P. Brock
- Reliance Aniline & Chemical Co., 100 Broadway, New York City. Marcus J. Fessler
- Rendrock Powder Co., 106 Wall St., New York City, N. Y. E. Schwarz
- Republic Carbon Co., Niagara Falls, N. Y.
- Republic Chemical Co., Inc., Nevill Island, Pittsburgh, Pa.
- Republic Flow Meters Co., 565 W. Washington Blvd., Chicago, Ill. J. A. Obermaier
- Republic Iron & Steel Co., Youngstown, Ohio
- Research Corporation, 63 Wall St., New York City
- Research Laboratory of Chicago, 467 E. Ontario St., Chicago, Ill. M. O. Reiche
- Richards & Co., Inc., 200 Causeway St., Boston, Mass. John A. West
- Richmond Guano Co., 705 Travelers Bldg., Richmond, Va.
- Riordan Pulp & Paper Co., Ltd., Montreal, Canada
- River Furnace Co., Cleveland, Ohio
- Riverside Acid Works, Warren, Pa. M. B. Crowe
- Riverside Metal Co., Riverside, N. J.
- Robinson & Co., H. F., Manchester, England
- Rock County Sugar Co., Janesville, Wis. C. O. Stewart
- Roessler & Hasslacher Chemical Co., Perth Amboy, N. J. M. J. Brown
- Roessler & Hasslacher Co., 100 William St., New York City
- Rogers & Hubbard Co., Middletown, Conn.
- Rohn & Haas, 40 North Fork Ct., Philadelphia, Pa.
- Roller-Smith Co., 233 Broadway, New York City
- Rollin Chemical Co., Inc., Charleston, W. Va. James B. Pierce, Jr.
- Rome Soap Mfg. Co., Rome, N. Y.
- Rosentwist & Gorner, 26 India Sq., Boston, Mass. Edward A. Wiessner
- Rossville Co., Lawrenceburg, Ind.
- Roth Co., Box 57, Denver, Colo. J. P. Roth, Jr.
- Royal Crown Soaps, Ltd., Winnipeg, Canada
- Royster Guano Co., F. S., Norfolk, Va.
- Rueckheim Bros. & Eckstein, Peoria and Harrison Sts., Chicago, Ill.
- Rumford Chemical Works, Providence, R. I. A. H. Fiske
- Russia Cement Co., Essex Ave., Gloucester, Mass.
- Rust Resisting Black Finish Co., Bridgeport, Conn.
- Salt Lake Chemical Co., Burmester, Utah. F. V. D. Crusier
- Sandoz Chemical Works, 60 Fabricstrasse, Basle, Switzerland
- Sargent Steam Meter Co., 2835 Armitage Ave., Chicago, Ill.
- Sauer Co., C. F., Richmond, Va. C. F. Sauer
- Schell Chemical Co., Inc., 56 Pine St., New York City. H. J. Daiguarlt
- Schieren Co., Chas. A., New York City
- Scientific Instrument & Electrical Machine Co., 500 S. York St., Mechanicsburg, Pa. W. W. Strong
- Scientific Materials Co., 711-719 Forbes St., Pittsburgh, Pa. W. T. Murdock
- Scientific Utilities Co., Inc., 84 E. 10th St., New York City. George Grunberg
- Scott & Co., Ernest, P. O. Box 259, Fall River, Mass. H. Austin
- Seovill Mfg. Co., Waterbury, Conn. Wm. B. Price
- Seaboard By-Product Coke Co., Jersey City, N. J.
- Sears, Roebuck & Co., Chicago, Ill.
- Seattle Lighting Co., Seattle, Wash.
- Segal & Co., Inc., George H., 95 William St., New York City
- Sellers & Co., William, 1600 Hamilton St., Philadelphia, Pa.
- Semet-Solvay Co., Syracuse, N. Y.
- Sethness Co., 718 N. Curtis St., Chicago, Ill.
- Seydel Mfg. Co., Forrest and Halliday Sts., Jersey City, N. J. R. W. Harris
- Sharp & Dohme, Howard and Pratt Sts., Baltimore, Md.
- Sharp, Ltd., J. B. & W. R., Edenfield, England
- Sharples Specialty Co., West Chester, Pa. Eugene E. Ayres, Jr.
- Sherwin Williams Co., Cleveland, Ohio
- Shinola Co., 8-28 Jay St., Rochester, N. Y.
- Shore Instrument & Mfg. Co., 555 W. 22d St., New York City
- Shriver & Co., T., Harrison, N. J.

- Simeon & Elting, 93 Nassau St., New York City
- Sinclair & Valentine Co., 611 W. 119th St., New York City. J. S. Klein
- Sirch, C. W., 126 W. 3d St., Los Angeles, Cal.
- Sloan & Russell, Inc., 132 Nassau St., New York City. E. Taylor
- Smith & Co., F. L., 50 Church St., New York City
- Smith, Kline & French Co., 429-35 Arch St., Philadelphia, Pa.
- Smith Co., Werner G., Cleveland, Ohio. Wm. Collette
- Smith Gas Engineering Co., Dayton, Ohio. Thornton G. Plummer
- Snyder Electric Furnace Co., 53 W. Jackson Blvd., Chicago, Ill.
- Sociedad Anónima Monegal, Barcelona, Spain. New York City: Bichels & Techow, 98 Maiden Lane
- Solvay Process Co., Syracuse, N. Y.
- John D. Penneck: Plant: Detroit, Mich. A. F. Shattuck
- Sommers & Sons Co., Galena and 31st Sts., Milwaukee, Wis.
- Southern Cotton Oil Co., 24 Broad St., New York City
- Southern Ferro Alloys Co., Chattanooga, Tenn. George L. Davison
- Southern Fertilizer & Chemical Co., Savannah, Ga.
- Southern Manganese Corporation, Birmingham, Ala. A. B. Gerber
- Southern Oil & Chemical Co., Savannah, Ga. C. M. Maclean
- Special Chemicals Co., Inc., Highland Park, Ill. R. E. Rindfusz, Consulting Chemist
- Spence & Sons, Ltd., Peter, Manchester, England
- Spencer Lens Co., 440 Niagara St., Buffalo, N. Y. Thomas Browne
- Sperry & Co., D. R., Batavia, Ill. D. R. Sperry
- Spreckels Sugar Co., Spreckels, Cal.
- Squibb & Sons, E. R., 80 Beekman St., New York City. F. W. Nitardy
- Stamford Mfg. Co., 82 Wall St., New York City
- Standard Asphalt & Refining Co., 208 S. La Salle St., Chicago, Ill.
- Standard Chemical Co., foot of W. 5th St., Bayonne, N. J. Martin Szamotolski
- Standard Chemical Co., Canonsburg, Pa. K. C. Nicholson
- Standard Chemical Mfg. Co., Omaha, Neb.
- Standard Chemical Co., Pittsburgh, Pa.
- Standard Chemical Co., Tacoma, Wash. P. Van Horst
- Standard Color Works, 55 Liberty St., New York City
- Standard Distilling & Distributing Co., 27 William St., New York City
- Standard Glue Co., 455 Broadway, New York City
- Standard Oil Co., 26 Broadway, New York City
- Standard Tablet Co., Ltd., Nove, Sussex, England. H. W. Kilby
- Star Brass Works, 3114-22 Carroll Ave., Chicago, Ill.
- St. Lawrence Tale Co., 7 E. 42d St., New York City
- Stanley Aniline Chemical Works, Lock Haven, Pa.
- Stanley, John T., 650 W. 30th St., New York City
- Stauffer Chemical Co., Chauncey, N. Y., Monogahela City, N. Y.
- Stoelting Co., C. H., 3037-47 Carroll Ave., Chicago, Ill.
- Stokes Machine Co., F. J., 17th and Cambria Sts., Philadelphia, Pa.
- Stone & Webster, 147 Milk St., Boston, Mass. Leonard B. Buchanan
- Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St., Chicago, Ill.
- Stroud & Co., E. H., 928 Fullerton Ave., Chicago, Ill.
- Stuart & Co., C. H., Newark, N. J. F. J. Kopp
- Stobner Chemical Works, 1665 Weeks Ave., New York City. A. P. Sachs
- Sullivan Machinery Co., 122 S. Michigan Ave., Chicago, Ill. F. H. Kingdon
- Superior Products Co., Hartman Bldg., Columbus, Ohio
- Sullivan Machinery Co., 122 S. Michigan Ave., Chicago, Ill. F. H. Kingdon, Claremont, W. Va.
- Suzuki & Co., 220 Broadway, New York City
- Swan Myers & Co., Indianapolis, Ind.
- Swenson Evaporator Co., 945 Monadnuck Bldg., Chicago, Ill.
- Swift & Co., Chicago, Ill. W. D. Richardson
- Synfleur Scientific Laboratories, Monticello, N. Y.
- Synthetic Products Co., North Towanda, N. Y.
- Tacoma Smelting Co., Tacoma, Wash. O. C. Zischkau
- Tagliabue Mfg. Co., C. J., 18-88 Thirty-third St., Brooklyn, N. Y. A. Roesch
- Tartar Chemical Co., 135 William St., New York City
- Taylor Chemical Co., Penn Yan, N. Y. C. E. Taylor
- Taylor Co., Inc., N. & G., 300 Chestnut St., Philadelphia, Pa.

- Taylor Instrument Cos., 95 Ames St., Rochester, N. Y.
- Tennessee Chemical Co., Nashville, Tenn.
- Tennessee Coal, Iron & R. R. Co., Birmingham, Ala. James R. Harris
- Texas Co., 17 Battery Pl., New York City
- Texas Gulf Sulphur Co., 50 E. 42d St., New York City. Chas. Biesel
- Thiele Laboratories Co., Hartman Bldg., Columbus, Ohio
- Thwing Instrument Co., 3333 Lancaster Ave., Philadelphia, Pa. C. B. Thwing
- Timken Roller Bearing Co., Canton, O.
- Tionesta Valley Chemical Co., Tionesta, Pa.
- Titanium Alloy Mfg. Co., Niagara Falls, N. Y. L. E. Barton
- Toch Bros., 320 Fifth Ave., New York City. Maximilian Toch
- Toledo Furnace Co., Toledo, Ohio
- Toledo Pharmaceutical Co., 224-226-228 Jackson Ave., Toledo, Ohio
- Tolhurst Machine Works, Troy, N. Y.
- Trus-Con Laboratories, Detroit, Mich. Lawrence E. Peterson
- Tyler Co., W. S., Cleveland, Ohio. Fred S. Curtis
- Uehling Instrument Co., 71 Broadway, New York City
- Union Bag & Paper Co., Chicago, Ill.
- Union Carbide Co., Niagara Falls, N. Y.
- Union Chemical & Refining Co., Johnstown, Pa.
- Union Dye & Chemical Co., 2 Rector St., New York City. Works: Kingsport, Tenn.
- Union Distilling Co., 3rd and Race Sts., Cincinnati, Ohio
- Union Oil Co. of California, Oleum, Cal.
- Union Sugar Co., Home Office, 310 Sansome St., San Francisco, Cal.
- United Alloy Steel Corporation, Canton, O.
- United Dyes Corporation, Perth Amboy, N. J.
- United Filters Corporation, 65 Broadway, New York City. C. B. Oliver
- United Indigo & Chemical Co., Ltd., Boston, Mass.
- United Furnace Co., Cleveland, Ohio
- United Gas Improvement Co., Philadelphia, Pa. W. H. Fulweiler
- United Lead Co., 111 Broadway, New York City
- United Lined Tube & Valve Co., Boston, Mass.
- United States Asphalt Refining Co., E. Brooklyn, Baltimore, Md.
- United States Gypsum Co., 205 W. Monroe St., Chicago, Ill.
- United States Industrial Alcohol Co., Pine and Ferdinand Sts., New Orleans, La.
- United States Metals Refining Co., 120 Broadway, New York City; Plant: Chrome, N. J. H. D. Greenwood
- United States Nickel Co., New Brunswick, N. J.
- United States Reduction & Refining Co., Colorado Springs, Colo.
- United States Silica Co., 122 S. Michigan Ave., Chicago, Ill. Chas. J. Luck
- United States Smelting Co., 120 Broadway, New York City
- United States Smelting, Refining & Mining Co., Boston, Mass.
- United States Steel Co., New York City
- United States Steel Corporation, 71 Broadway, New York City
- United States Stoneware Co., Akron, Ohio
- United States Tire Co., Broadway and 58th St., New York City
- United States Varnish Co., 41 Park Row, New York City
- Upjohn Co., Kalamazoo, Mich. F. W. Heyl
- Utah Potash Co., Trenton, N. J. H. J. Dittviller.
- Vacuum Oil Co., 61 Broadway, New York City. F. R. Baxter
- Vanadium Alloys Steel Co., Latrobe, Pa. Myron A. Frost
- Van Schaack & Sons, Peter, 114-118 W. Lake St., Chicago, Ill. Thos. Cunningham
- Van Schaack Bros. Chemical Works, Avondale, Chicago, Ill. R. H. Van Schaack, Jr.
- Van Tilburg Oil Co., 2424-28 University Ave., S. E., Minneapolis, Minn.
- Verona Chemical Co., North Newark, N. J.
- Victor Chemical Works, 1805 Fisher Bldg., Chicago, Ill. Factory: Chicago Heights, Ill. R. A. Holbrook
- Victor Talking Machine Co., Camden, N. J. Edwin F. Hicks
- Victors, Ltd., Manchester, England. A. J. Pennington
- Vilter Mfg. Co., 824 Clinton St., Milwaukee, Wis. J. E. Bock
- Virginia-Carolina Chemical Co., Richmond, Va. F. B. Carpenter
- Virginia Consolidated Chemical Corporation, 100 Broadway, New York City
- Virginia Products Corporation, 3rd Ave. and 8th St., Canton, Baltimore, Md.
- Virginia Red Oil Products Corporation, Baltimore, Md. J. J. R. Bristow

- Vitro Mfg. Co., 720 Bessemer Bldg., Pittsburgh, Pa.
 Vitrolite Co., 133 W. Washington St., Chicago. D. S. Beebe
 Vulcan Detinning Coll., Sewaren, N. J.
 Wabash Refining Co., Robinson, Ill.
 Walker Chemical Works, 1010 Camp St., New Orleans, La.
 Walsh & Co., James, Lawrenceburg, Ind.
 W. P. O'Shaughnessy
 Waltham Chemical Co., Waltham, Mass.
 Warner Chemical Co., 52 Vanderbilt Ave., New York City
 Warner Klipstein Chemical Co., Inc., 52 Vanderbilt Ave.
 Warren Chemical Product Co., Warren, Pa.
 Warren Co., S. D., Boston, Mass.
 Works: Westbrook, Me.
 Welch Mfg. Co., W. M., 1516 Orleans St., Chicago, Ill.
 Welsbach Light Co., Gloucester City, N. J. Harlan S. Miner
 Werk Co., The M., St. Barnard, Ohio
 Werner & Pfeiderer Co., Inc., Saginaw, Mich.
 West Coast Chemical Co., 6961 Woodlawn Ave., Seattle, Wash.
 West Disinfecting Co., 411 Fifth Ave., New York City. W. Dryfu
 Western Aniline Products Co., 1160 Old Colony Bldg., Chicago, Ill. Works: Hammond, Ind. T. C. McCalla
 Western Chemical Mfg. Co., W. Byaud and Osage Sts., Denver, Colo.
 Western Grain & Sugar Products Co., Agnew, Cal.
 Western Reduction Co., Portland, Oregon
 Western Stoneware Co., Monmouth, Ill.
 Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa. C. E. Skinner
 Westinghouse Lamp Co., Bloomfield, N. J. Duncan McRae
 Weston Electrical Instrument Co., Newark, N. J. Wm. Goodwin, Jr.
 West Virginia Pulp & Paper Co., 200 Fifth Ave., New York City. Works: Davis, W. Va. Noel Statham, Mgr. Chem. Dept.
 *Weymouth, Ralph W., 111 Broadway, New York City. Philip Kim
 Whalen Pulp and Paper Mills Ltd., Vancouver, Canada. E. C. De Giovellina
 Wheeler Reynolds & Stauffer, 624 California St., San Francisco, Cal. E. C. Missbach
 Whittall, Tatum Co., Philadelphia, Pa. G. E. Barton
 Whitehouse, Lewington, West Bromwich, England. P. H. Whitehouse
 Whitlock Coil Pipe Co., Hartford, Conn. W. C. Beekley
 Wiarda & Co., J. C., 273 Greene St., Brooklyn, N. Y. Wm. S. Tonry
 Wilckes, Martin, Wilckes Co., 135 William St., New York City
 Willcocks & Co., Ltd., H. S., Manchester, England
 Will & Baumer Co., Syracuse, N. Y.
 Williamsburg Chemical Co., Inc., 230 Morgan Ave., Brooklyn, N. Y. R. Heyder
 Williams Co., J. B., Glastonbury, Conn.
 Williams & Son, John T., Inc., 100 Broadway, New York City
 Wilson & Co., Chicago, Ill.
 Wing & Evans, 22 William St., New York City
 Wolf & Co., Jacques, Passaic, N. J. Alfred Pfister
 Winkler & Bro., Isaac, 804 First National Bank Bldg., Cincinnati, Ohio
 Wood & Co., Granville, Oldham, England
 Wood & Co., D. R., 400 Chestnut St., Philadelphia, Pa.
 Wood, Inc., J. Early, 21 Platt St., New York City. K. M. Baum
 Wood Products Co., Buffalo, N. Y.
 Woodward Iron Co., Woodward, Ala.
 Wright Chemical Corporation, 38 Park Row, New York City. R. W. Gumell
 Wrigley, Jr., Co., Wm., 5 N. Wabash Ave., Chicago, Ill.
 Young & Co., J. S., Hanover, Pa. James Alexander
 Youngstown Chemical Co., Youngstown, Ohio. H. A. Seil
 Youngstown Sheet & Tube Co., Youngstown, Ohio. David A. Russell
 York Chemical Co., 103 Maiden Lane, New York City
 York Chemical Works, York, Pa. H. B. Faber
 York Metal & Alloy Co., York, Pa.
 Zarembo Co., Niagara Life Ins. Bldg., Buffalo, N. Y.
 Zenith Furnace Co., West Duluth, Minn.
 Zenner Products Co., 133 W. Larned St., Detroit, Mich.
 Zinsser & Co., Hastings-on-Hudson, N. Y. Wm. Skinschneider
 Zobel Co., Inc., Ernest, 38 Water St., New York City. Mr. Lindle
 Zobel Color Wks., Inc., 95-127 Ninth St., Brooklyn, N. Y. E. W. Pierce

II. INSTITUTIONAL LABORATORIES

- Adelbert College, Cleveland, Ohio
 Adelphi College, Brooklyn, N. Y.
 Adrian College, Adrian, Mich.
 Agnes Scott College, Decatur, Ga.
 Agricultural & Mechanical College (colored) Norwalk, Conn.
 Agricultural College of Utah, Logan, Utah
 Agricultural and Mechanical College of Kentucky, Lexington, Ky.
 Agricultural and Mechanical College of Texas, College Station, Texas
 Alabama Polytechnic Institute, Auburn, Ala.
 Albany College of Pharmacy, Union University, Albany, N. Y.
 Albany Medical College, Albany, N. Y.
 Albion College, Albion, Mich.
 Allegheny College, Meadville, Pa.
 Amherst College, Amherst, Mass.
 Arizona School of Mines, Tucson, Ariz.
 Arkansas College, Batesville, Ark.
 Armour Institute of Technology, Chicago, Ill.
 Army Medical School, Washington, D. C.
 Ashland College, Ashland, Ohio
 Atlanta College of Pharmacy, Atlanta, Ga.
 Atlanta College of Physicians and Surgeons, Atlanta, Ga.
 Atlanta Medical College, Atlanta, Ga.
 Atlanta University, Atlanta, Ga.
 Audubon Sugar School, Baton Rouge, La.
 Austin College, Sherman, Texas
 Baltimore City College, Baltimore, Md.
 Baltimore Medical College, Baltimore, Md.
 Baltimore Polytechnic Institute, Baltimore, Md.
 Bernard College, New York City
 Bates College, Lewiston, Me.
 Baylor University, Waco, Texas
 Baylor University Medical College, Dallas, Texas
 Belmont College, Nashville, Tenn.
 Beloit College, Beloit, Wis.
 Berea College, Berea, Ky.
 Bessie Tift College, Forsyth, Ga.
 Bethany College, Topeka, Kansas
 Bethany College, Bethany, W. Va.
 Bethel College, Russellville, Ky.
 Bingham School, Asheville, N. C.
 Birmingham College of Pharmacy, Birmingham, Ala.
 Bordentown Industrial and Manual Training School, Bordentown, N. J.
 Boston Dental College, Boston, Mass.
 Boston University, Boston, Mass.
 Bowdoin College, Brunswick, Me.
 Brigham Young College, Logan, Utah
 Brigham Young University, Provo, Utah
 Brenau College, Gainesville, Ga.
 Brooklyn College of Pharmacy, Brooklyn, N. Y.
 Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y.
 Brooklyn Polytechnic Institute, Brooklyn, N. Y.
 Brown University, Providence, R. I.
 Bryn Mawr College, Bryn Mawr, Pa.
 Bucknell University, Lewisburg, Pa.
 Buffalo College of Pharmacy, Buffalo, N. Y.
 California College, Oakland, Cal.
 California College of Pharmacy, San Francisco, Cal.
 California Polytechnic School, San Luis Obispo, Cal.
 California State Normal School, Chico, Cal.
 Calvert Hall College, Baltimore, Md.
 Carleton College, Northfield, Minn.
 Carnegie Institute of Technology, Pittsburgh, Pa.
 Case School of Applied Sciences, Cleveland, Ohio
 Catawba College, Newton, N. C.
 Catholic University of America, Washington, D. C.
 Central College for Women, Lexington, Miss.
 Central College for Women, Lexington, Mo.
 Central Michigan Normal Institute, Mount Pleasant, Mich.
 Central Normal College, Dade City, Fla.
 Central Normal College, Danville, Ind.
 Central Normal College, Waddy, Ky.
 Central State Normal School, Mt. Pleasant, Mich.
 Central University of Kentucky, Danville, Ky.
 Chicago College of Dental Surgery, Chicago, Ill.
 Chicago College of Medicine and Surgery, Chicago, Ill.
 Chicago College of Pharmacy, Chicago, Ill.
 Chicago School of Assaying, Chicago, Ill.
 Cincinnati College of Pharmacy, Cincinnati, Ohio
 Clark College, Worcester, Mass.
 Clark University, Worcester, Mass.
 Clarkson Memorial College of Technology, Potsdam, N. Y.

- Clemson Agricultural College, Clemson College, P. O., S. C.
 Cleveland School of Pharmacy, Cleveland, Ohio
 Cole College, Cedar Rapids, Iowa
 Cogswell Polytechnic College, San Francisco, Cal.
 Colby College, Waterville, Me.
 Colgate University, Hamilton, N. Y.
 College for Women, Columbia, S. C.
 College of Charleston, Charleston, S. C.
 College of the City of New York, New York City
 College of Medicine and Surgery, San Francisco, Cal.
 College of Pharmacy of City of New York, New York City
 College of Physicians and Surgeons, Little Rock, Ark.
 College of Physicians and Surgeons, Los Angeles, Cal.
 College of Physicians and Surgeons, San Francisco, Cal.
 College of Physicians and Surgeons, Baltimore, Md.
 College of Physicians and Surgeons, Boston, Mass.
 College of Physicians and Surgeons, Columbia University, New York City
 College of Physicians and Surgeons, Memphis, Tenn.
 College of Physicians and Surgeons, Dallas, Texas
 College of the Holy Cross, Worcester, Mass.
 College of the Pacific, San Jose, Cal.
 Colorado Agricultural College, Fort Collins, Colo.
 Colorado College, Colorado Springs, Colo.
 Colorado School of Mines, Golden, Colo.
 Colorado State Teachers' College, Greeley, Colo.
 Colorado Women's College, Montclair, Colo.
 Columbia College, Columbia, S. C.
 Columbia Military College, Columbia, Tenn.
 Columbia University, New York City
 Connecticut Agricultural College, Mansfield, Conn.
 Connecticut College for Women, New London, Conn.
 Converse College, Spartanburg, S. C.
 Coreoran Scientific School, Washington, D. C.
 Cornell University, Ithaca, N. Y.
 Cornell University Medical College, New York City
 Cox College and Conservatory, College Park, Ga.
 Creighton College of Pharmacy, Omaha, Neb.
 Creighton Medical College, Omaha, Neb.
 Creighton University, Omaha, Neb.
 Culver Military Academy, Culver, Ind.
 Cumberland University, Lebanon, Tenn.
 Dartmouth College, Hanover, N. H.
 Davidson College, Davidson, N. C.
 De Paul University, Chicago, Ill.
 De Pauw University, Greencastle, Ind.
 Delaware College, Newark, Del.
 Denison University, Granville, Ohio
 Detroit College, Detroit, Mich.
 Detroit College of Medicine, Detroit, Mich.
 Detroit University, Detroit, Mich.
 Dickinson College, Carlisle, Pa.
 Drake University, Des Moines, Iowa
 Drury College, Springfield, Mo.
 Duquesne University, Pittsburgh, Pa.
 Earlham College, Richmond, Ind.
 Eastern Illinois State Normal, Charleston, Ill.
 Emory and Henry College, Emory, Va.
 Emory University, Atlanta, Ga.
 Erskine College, Duewest, S. C.
 Fishburne Military School, Waynesboro, Va.
 Florida State College for Women, Tallahassee, Fla.
 Fordham University, Fordham, N. Y.
 Fordham University, New York City.
 Fordham University College of Medicine, New York City.
 Fordham University College of Pharmacy, New York City.
 Fort Worth School of Medicine, Fort Worth, Texas.
 Franklin and Marshall College, Lancaster, Pa.
 Franklin College, Franklin, Ind.
 Franklin College, Franklin, Ohio.
 Furman University, Greenville, S. C.
 Gallaudet College, Washington, D. C.
 George Washington University, Washington, D. C.
 Georgetown University, Washington, D. C.
 Georgia Medical College, University of Georgia, Augusta, Ga.
 Georgia Military Academy, Atlanta, Ga.
 Georgia Military Academy, Milledgeville, Ga.
 Georgia School of Technology, Atlanta, Ga.
 Georgia State College of Agriculture and Mechanic Arts, Athens, Ga.
 Gilman School, Roland Park, Md.
 Goucher College, Baltimore, Md.
 Gordon Institute, Barnesville, Ga.
 Grinnell College, Grinnell, Iowa.
 Groton School, Groton, Mass.
 Hahnemann Medical College, San Fran-

- Hahnemann Medical College, Chicago, Ill.
Hahnemann Medical College, Philadelphia, Pa.
Hamilton College, Clinton, N. Y.
Hamline University, St. Paul, Minn.
Hampden-Sidney College, Hampden-Sidney, Va.
Harvard Medical School, Boston, Mass.
Harvard University, Cambridge, Mass.
Harvard University Dental School, Boston.
Haskell Institute, Lawrence, Kan.
Haverford College, Haverford, Pa.
Hill School, Pottsville, Pa.
Hobart College, Geneva, N. Y.
Hollins College, Hollins, Va.
Hospital Col. of Medicine, Louisville, Ky.
Howard College, Birmingham, Ala.
Howard University, Washington, D. C.
Hunter College, New York, N. Y.
Illinois College, Jacksonville, Ill.
Illinois State Normal University, Normal, Ill.
Illinois Wesleyan Univ., Bloomington, Ill.
Illinois Woman's College, Jacksonville, Ill.
Indiana University, Bloomington, Ind.
Indiana University, School of Medicine, Indianapolis, Ind.
Iowa State College, Ames, Ia.
Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa
Jacob Tome Institute, Port Deposit, Md.
James Millikin University, Decatur, Ill.
John B. Stetson University, De Land, Fla.
Johns Hopkins University, Baltimore, Md.
Kansas City College of Pharmacy and Natural Sciences, Kansas City, Mo.
Kansas Medical College, Topeka, Kan.
Kansas State Agricultural College, Manhattan, Kan.
Kansas State School of Mines and Metallurgy, Weir, Kan.
Kansas State University, Lawrence, Kan.
Kearney Military Academy, Kearney, Neb.
Kemper Military School, Booneville, Mo.
Kentucky Military Institute, Lyndon, Ky.
Kentucky School of Medicine, Louisville.
Kenyon College, Gambier, O.
Knox College, Galesburg, Ill.
Lafayette College, Easton, Pa.
Lawrence Scientific School, Cambridge, Mass.
Lawrence University, Appleton, Wis.
Lawrenceville School, Lawrenceville, N. J.
Lehigh University, South Bethlehem, Pa.
Leland Stanford Junior University, Stanford University, P. O., Cal.
Leland Stanford Junior University, College of Medicine, San Francisco, Cal.
Lewis Institute, Chicago, Ill.
Louisiana State Normal, Natchitoches, La.
Louisiana State University, Baton Rouge, La.
Louisiana State University, Agricultural and Mechanical College, Baton Rouge, La.
Louisville College of Pharmacy, Louisville, Ky.
Louisville Medical College, Louisville, Ky.
Lowell Textile School, Lowell, Mass.
Loyola College, Baltimore, Md.
Loyola University, Chicago, Ill.
Manhattan College, New York, N. Y.
Manhattan Trade School, New York, N. Y.
Manual Training and Commercial High School, Oakland, Cal.
Manual Training and Industrial School, Bordentown, N. J.
Marietta College, Marietta, O.
Marist College, Atlanta, Ga.
Marquette University, Milwaukee, Wis.
Maryland Agricultural College, College Park, Md.
Maryland College of Pharmacy, Baltimore, Md.
Maryland Medical College, Baltimore, Md.
Maryland State Normal School, Baltimore, Md.
Massachusetts Agricultural College, Amherst, Mass.
Massachusetts College of Pharmacy, Boston, Mass.
Massachusetts Institute of Technology, Boston, Mass.
Massachusetts State Normal, Westfield, Mass.
Mechanic's Institute, San Francisco, Cal.
Medical College of Georgia, University of Georgia, Augusta, Ga.
Medical College of Virginia, Richmond, Va.
Medical College of Indiana, Indianapolis, Ind.
Medical College of South Carolina, Charleston, S. C.
Medical Department of the University of West Tennessee, Memphis, Tenn.
Medical School of Maine, Bowdoin College, Portland, Me.

- Medical College of Ohio, University of Cincinnati, Cincinnati, O.
 Medical College of the State of South Carolina, Charleston, S. C.
 Medical School of Virginia, Richmond, Va.
 Medico-Chirurgical College, Philadelphia, Pa.
 Meharry Medical College, Walden University, Nashville, Tenn.
 Mercer University, Macon, Ga.
 Mercer University School of Pharmacy, Macon, Ga.
 Mercersburg Academy, Mercersburg, Pa.
 Miami University, Oxford, O.
 Michigan State Agricultural College, Agricultural College P. O., Mich.
 Millikin University, Decatur, Ill.
 Mills College, Mills College P. O., Cal.
 Millsaps College, Jackson, Miss.
 Milwaukee Medical College, Marquette University, Milwaukee, Wis.
 Minneapolis College of Physicians and Surgeons, Hamline Univ., Minneapolis, Minn.
 Minnesota Institute of Pharmacy, Minneapolis, Minn.
 Mississippi Agricultural and Mechanical College, Agricultural College P. O., Miss.
 Mississippi Medical College, Meridian, Miss.
 Mississippi Textile School, A. and M. College, Agricultural College, Miss.
 Missouri Military Academy, Mexico, Mo.
 Missouri School of Mines, Rolla, Mo.
 Missouri State Military School, Columbia, Mo.
 Montana School of Mines, Butte, Mont.
 Montana Agricultural College, Bozeman, Mont.
 Montana State Normal College, Dillon, Mont.
 Mooney School, Murfreesboro, Tenn.
 National College of Pharmacy, Washington, D. C.
 Nebraska College of Medicine, Lincoln, Neb.
 Nebraska Normal College, Wayne, Neb.
 New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.
 New Jersey College of Pharmacy, Newark, N. J.
 New Mexico College of Agriculture and Mechanic Arts, Agricultural College P. O., N. M.
 New Mexico Military Institute, Roswell, N. M.
 New Mexico School of Mines, Socorro, N. M.
 New Orleans College of Pharmacy, New Orleans, La.
 New Orleans Polyclinic, New Orleans, La.
 New York Military Academy, Cornwall, N. Y.
 New York Post-Graduate Medical School, New York, N. Y.
 New York Polyclinic Medical School and Hospital, New York, N. Y.
 New York School of Clinical Medicine, New York, N. Y.
 New York State College of Agriculture, Cornell University, Ithaca, N. Y.
 New York State College of Forestry, Syracuse University, Syracuse, N. Y.
 New York State Veterinary College, Ithaca, N. Y.
 New York University, New York, N. Y.
 New York University Veterinary School, New York, N. Y.
 Nevada State University, Reno, Nev.
 Normal College of the City of New York, New York, N. Y.
 Normal, Industrial and Mechanical College of South Carolina, Orangeburg, S. C.
 Normal School of Arizona, Tempe, Ariz.
 Normal School of New Mexico, Silver City, N. M.
 Normal School of New Mexico, Santa Rosa, N. M.
 North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C.
 North Dakota Agricultural College, Fargo, N. D.
 North Dakota School of Science, Wahpeton, N. D.
 North Pacific College, Portland, Ore.
 Northeast Manual Training School, Philadelphia
 Northeastern Ohio Normal Col., Canfield, O.
 Northwestern Military Academy, Lake Geneva, Wis.
 Northwestern University, Evanston, Ill.
 Northwestern University Dental School, Chicago, Ill.
 Northwestern University Medical School, Chicago, Ill.
 Northwestern University School of Pharmacy, Chicago, Ill.
 Norwich University, Northfield, Vt.
 Oakland College of Medicine and Surgery, Oakland, Cal.
 Oberlin College, Oberlin, O.
 Occidental College, Los Angeles, Cal.
 Ohio College of Dental Surgery, University of Cincinnati, Cincinnati, O.
 Ohio Institute of Pharmacy, Columbus, O.

- Ohio Mechanics' Institute, Cincinnati, O.
 Ohio-Miami Medical College, University of Cincinnati Medical Dept. Cincinnati, Ohio.
 Ohio Military Institute, Cincinnati, O.
 Ohio State University, Columbus, O.
 Ohio Wesleyan University, Delaware, O.
 Oklahoma Agricultural and Mechanical College, Stillwater, Okla.
 Oklahoma School of Mines and Metallurgy, Wilburton, Okla.
 Omaha College of Pharmacy, Omaha, Neb.
 Oregon State Agricultural College, Corvallis, Ore.
 Pacific College, Newberg, Ore.
 Pennsylvania College of Dental Surgery, Philadelphia, Pa.
 Pennsylvania Military College, Chester, Pa.
 Pennsylvania State College, State College, Pa.
 Philadelphia College of Pharmacy, Philadelphia, Pa.
 Philadelphia Dental Col., Philadelphia, Pa.
 Philadelphia Medical School of Temple College, Philadelphia, Pa.
 Philadelphia Polyclinic, Philadelphia, Pa.
 Philadelphia Textile School, Philadelphia, Pa.
 Philip's Exeter Academy, Exeter, N. H.
 Phillips Academy, Andover, Mass.
 Pittsburgh College of Pharmacy, Pittsburgh, Pa.
 Pittsburgh Dental College, Western University of Pennsylvania, Pittsburgh, Pa.
 Princeton University, Princeton, N. J.
 Pomona College, Claremont, Cal.
 Pratt Institute, Brooklyn, N. Y.
 Queen City College of Pharmacy, Cincinnati, Ohio
 Racine College, Racine, Wis.
 Radcliffe College, Cambridge, Mass.
 Randolph-Macon College, Ashland, Va.
 Randolph-Macon Woman's Col., Lynchburg, Va.
 Reed College, Portland, Ore.
 Rensselaer Polytechnic Institute, Troy, N. Y.
 Rhode Island State College of Agriculture and Mechanic Arts, Kingston, R. I.
 Rhode Island College of Pharmacy and Allied Sciences, Providence, R. I.
 Rhode Island College, Kingston, R. I.
 Rhode Island Normal School, Providence, R. I.
 Rice Institute, Houston, Tex.
 Richmond College, Richmond, Va.
 Ripon College, Ripon, Wis.
 Riverside Military Academy, Gainesville, Ga.
 Roanoke College, Salem, Va.
 Rose Polytechnic Institute, Terra Haute, Ind.
 Rush Medical College, Chicago, Ill.
 Rutgers College, New Brunswick, N. J.
 St. John's College, Annapolis, Md.
 St. Lawrence University, Canton, N. Y.
 St. Louis College of Dentistry, St. Louis, Mo.
 St. Louis College of Pharmacy, St. Louis, Mo.
 St. Louis College of Physicians and Surgeons, St. Louis, Mo.
 St. Louis Medical College, Medical Department Washington University, St. Louis, Mo.
 St. Louis University, St. Louis, Mo.
 St. Stephen's College, Annandale-on-Hudson, N. Y.
 School of Agriculture, Tucson, Ariz.
 School of Agriculture, University of Minnesota, St. Anthony Park, Minn.
 School of Agriculture and Experiment Farm, Crookston, Minn.
 School of Dentistry, University of Ill., Chicago.
 School of Engineering, Agricultural and Mechanical College, College Station, Texas.
 School of Engineering, A. & M. College, Agricultural College P. O., Miss.
 Sheffield Scientific Sch., New Haven, Conn.
 Sibley College of Mechanical Engineering and Mechanic Arts, Ithaca, N. Y.
 Simmons College, Boston, Mass.
 Smith College, Northampton, Mass.
 Smith College for Women, Geneva, N. Y.
 South Carolina Military Academy, Charleston, S. C.
 South Dakota State College, Department of Pharmacy, Brookings, S. D.
 South Dakota Sch. of Mines, Rapid City, S. D.
 Southeastern Dental College, Atlanta, Ga.
 Southern Col. of Pharmacy, Atlanta, Ga.
 Southern Dental College, Atlanta, Ga.
 Southern Methodist University, Medical Department, Dallas, Texas.
 Southern Methodist University, Dallas, Texas.
 Southern University, Greensboro, Ala.
 Southwestern University, Georgetown, Tex.
 Southwestern University Medical College, Dallas, Tex.
 State Agricultural College, Burlington, Vt.
 State Agricultural College, Breen, Colo.

- State Agricultural and Mechanical College, Baton Rouge, La.
 State Agricultural and Mechanical College of Texas, College Station, Tex.
 State Agricultural School, Jonesboro, Ark.
 State Agricultural School, Magnolia, Ark.
 State Agricultural School, Monticello, Ark.
 State Agricultural School, Russellville, Ark.
 State College of Kentucky, Lexington, Ky.
 State College of Washington, Pullman, Wash.
 State Normal and Industrial College, Greensboro, N. C.
 State Normal-Industrial School, Ellendale, N. D.
 State Normal and Industrial School, Harrisonburg, Va.
 State Normal and Industrial School for Women, Fredericksburg, Va.
 State Normal College, Athens, Ohio.
 State Normal and Train. Sch., Cortland, N. Y.
 State Normal College, Ypsilanti, Mich.
 State Normal School, Florence, Ala.
 State Normal School, Jacksonville, Ala.
 State Normal School, Livingston, Ala.
 State Normal School, Moundville, Ala.
 State Normal School, Troy, Ala.
 State Normal School, Chico, Cal.
 State Normal School, Los Angeles, Cal.
 State Normal School, San Diego, Cal.
 State Normal School, San Francisco, Cal.
 State Normal School, San Jose, Cal.
 State Normal School, Gunnison, Colo.
 State Normal School, Danbury, Conn.
 State Normal School, Athens, Ga.
 State Normal School, Albion, Idaho.
 State Normal School, Lewiston, Idaho.
 State Normal School, Emporia, Kan.
 State Normal School, Bridgewater, Mass.
 State Normal School, Fitchburg, Mass.
 State Normal School, Farmingham, Mass.
 State Normal School, Hyannis, Mass.
 State Normal School, Lowell, Mass.
 State Normal School, North Adams, Mass.
 State Normal School, Salem, Mass.
 State Normal School, Westfield, Mass.
 State Normal School, Worcester, Mass.
 State Normal School, Duluth, Minn.
 State Normal School, Mankato, Minn.
 State Normal School, Moorhead, Minn.
 State Normal School, St. Cloud, Minn.
 State Normal School, Winona, Minn.
 State Normal School, Cape Girardeau, Mo.
 State Normal School, Kirksville, Mo.
 State Normal School, Maryville, Mo.
 State Normal School, Springfield, Mo.
 State Normal School, Warrensburg, Mo.
 State Normal School, Reno, Nev.
 State Normal School, Montclair, N. J.
 State Normal School, Cullowhee, N. C.
 State Normal School, Mayville, N. D.
 State Normal School, Minot, N. D.
 State Normal School, Valley City, N. D.
 State Normal School, Buffalo, N. Y.
 State Normal School, New Platz, N. Y.
 State Normal School, Oneonta, N. Y.
 State Normal School, Oneonta, N. Y.
 State Normal School, Bowling Green, Ohio.
 State Normal School, Kent, Ohio.
 State Normal School, Oxford, Ohio.
 State Normal School, Monmouth, Ore.
 State Normal School, Bloomsberg, Pa.
 State Normal School, Indiana, Pa.
 State Normal School, Mansfield, Pa.
 State Normal School, West Chester, Pa.
 State Normal School, Spearfish, S. D.
 State Normal School, Springfield, S. D.
 State Normal School, Salt Lake City, Utah.
 State Normal School, Castleton, Vt.
 State Normal School, Johnson, Vt.
 State Normal School, Bellingham, Wash.
 State Normal School, Cheney, Wash.
 State Normal School, Athens, W. Va.
 State Normal School, Glenville, W. Va.
 State Normal School, Milwaukee, Wis.
 State Normal School, Oshkosh, Wis.
 State Normal School, Platteville, Wis.
 State Normal School, River Falls, Wis.
 State Normal School, Stevens Point, Wis.
 State Normal School, Superior, Wis.
 State Normal School, Whitewater, Wis.
 State Normal School of Pennsylvania, Indiana, Pa.
 State Normal School of Manual Arts, Santa Barbara, Cal.
 State Normal and Training School, Brockport, N. Y.
 State Normal and Training School, Cornwall, N. Y.
 State Normal and Training School, Fredonia, N. Y.
 State Normal and Training School, Oswego, N. Y.
 State Normal and Training School, Potsdam, N. Y.
 State Normal Training School, Danbury, Conn.
 State Normal Training School, New Britain, Conn.
 State Normal Training School, New Haven, Conn.
 State Normal Training School, Fall River, Mass.

- State School of Mines, Wilburton, Okla.
 State Normal Training School, William-
 mantic, Conn.
 State University, Louisville, Ky.
 State University of Iowa, Iowa City,
 Ia.
 State University of Kentucky, Lexing-
 ton, Ky.
 State University of North Dakota,
 Grand Forks, N. D.
 Stevens Institute of Technology, Ho-
 boken, N. J.
 Stout Institute, Menominee, Wis.
 Swarthmore College, Swarthmore, Pa.
 Sweet Briar College, Sweet Briar, Va.
 Syracuse University, Syracuse, N. Y.
 Syracuse University, College of Medi-
 cine, Syracuse, N. Y.
 Teachers' College, St. Louis, Mo.
 Teachers' College, Columbia University,
 New York, N. Y.
 Teachers' Training School, Albany,
 N. Y.
 Teachers' Training School, Rochester,
 N. Y.
 Teachers' Training School, Schenectady,
 N. Y.
 Teachers' Training School, St. Paul,
 Minn.
 Teachers' Training School, Hoboken,
 N. J.
 Teachers' Training School, Springfield,
 Ill.
 Teachers' Training School, Jersey City,
 N. J.
 Teachers' Training School, Harrisburg,
 Pa.
 Technical Normal School, Chicago, Ill.
 Technical School of Cincinnati, Cin-
 cinnati, O.
 Technological High School, Atlanta, Ga.
 Tennessee Medical College, Knoxville,
 Tenn.
 Tennessee Military Inst., Sweetwater,
 Tenn.
 Texas Christian University, Ft. Worth,
 Tex.
 Texas School of Mines, El Paso, Tex.
 Throop College of Technology, Pasadena,
 Cal.
 Toledo University, Toledo, O.
 Tome School, Port Deposit, Md.
 Trinity College, Hartford, Conn.
 Trinity College, Durham, N. C.
 Tulane University, New Orleans, La.
 Tufts College, Tufts College P. O., Mass.
 Union College, Schenectady, N. Y.
 Union University, Albany, N. Y.
 Union University, Jackson, Tenn.
 United States College of Veterinary
 Surgery, Washington, D. C.
 United States Indian Industrial School,
 Carlisle, Pa.
 United States Military Academy, West
 Point, N. Y.
 United States Naval Academy, Annap-
 olis, Md.
 University and Bellevue Hospital Medi-
 cal College, New York, N. Y.
 University of Akron, Akron, O.
 University of Alabama, University, Ala.
 University of Alabama Medical De-
 partment, Mobile, Ala.
 University of Alabama School of Pharm-
 acy, Mobile, Ala.
 University of Arizona, Tucson, Ariz.
 University of Arkansas, Fayetteville,
 Ark.
 University of Arkansas Medical De-
 partment, Little Rock, Ark.
 University of Arts and Trades, Toledo, O.
 University of Buffalo, Buffalo, N. Y.
 University of Buffalo, Dental Depart-
 ment, Buffalo, N. Y.
 University of Buffalo, College of Pharm-
 acy, Buffalo, N. Y.
 University of Buffalo, Medical Depart-
 ment, Buffalo, N. Y.
 University of California, Berkeley, Cal.
 University of California College of
 Dentistry, San Francisco, Cal.
 University of California Medical De-
 partment, San Francisco, Cal.
 University of Chattanooga, Chattanooga,
 Tenn.
 University of Chicago, Chicago, Ill.
 University of Cincinnati, Cincinnati, O.
 University College, Oak Hill, Ohio.
 University of Colorado, Boulder, Colo.
 University of Dallas, Dallas, Tex.
 University of Denver, Denver, Colo.
 University of Detroit, Detroit, Mich.
 University of Florida, Gainesville, Fla.
 University of Georgia, Athens, Ga.
 University of Idaho, Moscow, Idaho.
 University of Illinois, Urbana, Ill.
 University of Illinois School of Medicine,
 Chicago, Ill.
 University of Kansas, Lawrence, Kan.
 University of Kansas School of Medi-
 cine, Rosedale, Kan.
 University of Louisville, Louisville, Ky.
 University of Maine, Orono, Me.
 University of Maryland, Baltimore, Md.
 University of Michigan, Ann Arbor,
 Mich.
 University of Minnesota, Minneapolis,
 Minn.
 University of Mississippi, University,
 P. O., Miss.
 University of Missouri, Columbia, Mo.
 University of Montana, Missoula, Mont.
 University of Nashville, Nashville,
 Tenn.
 University of Nebraska, Lincoln, Neb.

- University of Nebraska College of Medicine, Omaha, Neb.
 University of Nevada, Reno, Nev.
 University of New Mexico, Albuquerque, N. M.
 University of North Carolina, Chapel Hill, N. C.
 University of North Carolina Medical School, Raleigh, N. C.
 University of North Dakota, University P. O., N. D.
 University of Notre Dame, Notre Dame, Ind.
 University of Oklahoma, Norman, Okla.
 University of Oklahoma, School of Medicine, Oklahoma, Okla.
 University of Omaha, Omaha, Neb.
 University of Oregon, Eugene, Ore.
 University of Oregon Medical Department, Portland, Ore.
 University of the Pacific, San Jose, Cal.
 University of Pennsylvania, Philadelphia, Pa.
 University of Pittsburgh, Pittsburgh, Pa.
 University of Rochester, Rochester, N. Y.
 University of Santa Clara, Santa Clara, Cal.
 University of South Carolina, Columbia, S. C.
 University of South Dakota, Vermillion, S. D.
 University of Southern California, Los Angeles, Cal.
 University of St. Ignatius, San Francisco, Cal.
 University of Tennessee, Knoxville, Tenn.
 University of Tennessee, College of Dentistry, Memphis, Tenn.
 University of Tennessee Medical Department, Nashville, Tenn.
 University of Tennessee, School of Pharmacy, Memphis, Tenn.
 University of Texas, Austin, Tex.
 University of Texas School of Pharmacy, Galveston, Tex.
 University of Texas Medical Department, Galveston, Tex.
 University of the South, Sewanee, Tenn.
 University of Utah, Salt Lake City, Utah.
 University of Vermont and State Agricultural College, Burlington, Vt.
 University of Virginia, Charlottesville, Va.
 University of Washington, Seattle, Wash.
 University of West Tennessee, Memphis, Tenn.
 University of Wisconsin, Madison, Wis.
 University of Wooster, Wooster, O.
 University of Wyoming, Laramie, Wyo.
 University School of Medicine, Baltimore, Md.
 Ursinus College, Collegeville, Pa.
 Valparaiso University, Valparaiso, Ind.
 Vanderbilt University, Nashville, Tenn.
 Vassar College, Poughkeepsie, N. Y.
 Villanova College, Villanova, Pa.
 Vincennes University, Vincennes, Ind.
 Virginia College, Roanoke, Va.
 Virginia Military Institute, Lexington, Va.
 Virginia Normal and Industrial Institute, Petersburg, Va.
 Virginia Polytechnic Inst., Blacksburg, Va.
 Virginia School of Dentistry, Medical College of Virginia, Richmond, Va.
 Virginia School of Pharmacy, Medical College of Virginia, Richmond, Va.
 Wabash College, Crawfordsville, Ind.
 Wake Forest College, Wake Forest, N. C.
 Washburn College, Topeka, Kan.
 Washington and Jefferson College, Washington, Pa.
 Washington and Lee University, Lexington, Va.
 Washington College, Chestertown, Md.
 Washington Dental College, Georgetown University, Washington, D. C.
 Washington State College, Pullman, Wash.
 Washington State Normal, Ellensburg, Wash.
 Washington University, St. Louis, Mo.
 Webb School, Belbuckle, Tenn.
 Wellesley College, Wellesley, Mass.
 Wenonah Military Academy, Wenonah, N. J.
 Wentworth Military Acad., Lexington, Mo.
 Wesleyan College, Macon, Ga.
 Wesleyan University, Middletown, Conn.
 West Virginia University, Morgantown, W. Va.
 Western Reserve University, Cleveland, Ohio.
 Wheaton College, Wheaton, Ill.
 Whitman College, Walla Walla, Wash.
 Whittier College, Salem, Ia.
 Whittier College, Whittier, Cal.
 Williamette University, Salem, Ore.
 William Jewell College, Liberty, Mo.
 William & Mary College, Williamsburg, Va.
 Williams College, Williamstown, Mass.
 Wittenburg College, Springfield, O.
 Wofford College, Spartanburg S. C.
 Woman's College, Richmond, Va.
 Woman's Medical College of Pennsylvania, Philadelphia, Pa.
 Worcester Polytechnic Inst., Worcester, Mass.
 Yale University, New Haven, Conn.

III. FEDERAL AND STATE LABORATORIES*

Bureau of Chemistry, Department of Agriculture, Washington, D. C.

Bureau of Animal Industry, Department of Agriculture, Washington, D. C.

Commissioner of Internal Revenue, Treasury Department, Washington, D. C.

United States Food and Drug Laboratory, Cincinnati, Ohio.

United States Food and Drug Laboratory, Minneapolis, Minn.

United States Food and Drug Laboratory, St. Louis, Mo.

United States Food and Drug Laboratory, Buffalo, N. Y.

United States Food and Drug Laboratory, Porto Rico.

United States Food and Drug Laboratory, Savannah, Ga.

United States Food and Drug Laboratory, Boston, Mass.

United States Food and Drug Laboratory, Chicago, Ill.

United States Food and Drug Laboratory, Denver, Colo.

United States Food and Drug Laboratory, New Orleans, La.

United States Food and Drug Laboratory, New York City.

United States Food and Drug Laboratory, Philadelphia, Pa.

United States Food and Drug Laboratory, Washington, D. C.

United States Food and Drug Laboratory, Honolulu, T. H.

United States Food and Drug Laboratory, Seattle, Wash.

Alabama

Commissioner, Department of Agriculture and Industries, Montgomery
B. B. Ross, Chemist, Alabama Polytechnic Institute, Auburn

Arizona

C. A. Bosworth, Director, State Laboratory, University of Arizona, Tucson

Arkansas

Commissioner, Bureau of Mines, Manufactures and Agriculture, Little Rock

Dr. William F. Manglesdorf, Chemist State Health Officer, Little Rock

A. R. Stover, Medical Department, University of Arkansas, Little Rock

California

Director, Bureau of Food and Drugs, University of California, Berkeley
State Dairy Bureau, 25 California St., San Francisco

Colorado

Food and Drug Commissioner, State Board of Health, Food and Drug Department, Capitol Building, Denver

State Dairy Commissioner, Fort Collins

J. B. Ekeley, State Chemist, University of Colorado, Boulder

Connecticut

Dairy and Food Commissioner, Capitol Building, Hartford

J. P. Street, Chemist, Agricultural Experiment Station, Drawer No. 1, New Haven

Delaware

President, State Board of Health, Wilmington

Herbert J. Watson, Chemist and Bacteriologist, State Board of Health, Newark

State Board of Pharmacy, Wilmington, Del.

District of Columbia

Health Officer, Health Department, Washington

Dr. J. J. Kinyoun, Bacteriologist, Health Department, Washington

Morris A. Pozen, Chemist, Health Department, Washington

Florida

Commissioner, Department of Agriculture, Tallahassee

R. E. Rose, Chemist, Department of Agriculture, Tallahassee

Georgia

Commissioner, State Board of Agriculture, Atlanta.

W. C. Dumas, Chemist, Department of Agriculture, Atlanta

Hawaii

A. W. Hansen, Territorial Board of Health, Honolulu

Idaho

Dairy, Food, and Sanitary Commissioner, Boise

Edward Rhodenbaugh, State Chemist, State Board of Health, Boise

* Included in this list are Federal and State officials of foods, drugs, dairying, and feeding stuffs.

ANNUAL CHEMICAL DIRECTORY OF THE UNITED STATES

Illinois

Commissioner, State Food Commission, 1627 Manhattan Building, Chicago
State Analyst, State Food Commission, 1627 Manhattan Building, Chicago

Indiana

State Food and Drug Commissioner, State House, Indianapolis (foods and drugs)
H. E. Bishop, Food Chemist, State House, Indianapolis
Wm. D. McAbee, Drug Chemist, State House, Indianapolis
John C. Diggs, Water Chemist, State House, Indianapolis

Iowa

Commissioner, Dairy and Food Commission, Des Moines
E. L. Redfern, State Chemist, Des Moines

Kansas

Secretary, State Board of Health, Topeka
State Dairy Commission, Manhattan
Director, Kansas Agricultural College Laboratory, Manhattan
Director, Food Laboratory, University of Kansas, Lawrence
L. E. Sayre, Drug Laboratory, University of Kansas, Lawrence

Kentucky

Food and Drug Department, Agricultural Experiment Station, Lexington (foods and drugs)
Director Agricultural Experiment Station, Lexington (feeding stuffs)
J. O. LaBach, Chief Chemist, Agricultural Experiment Station, Lexington
Linwood A. Brown, Drug Chemist, Agricultural Experiment Station, Lexington
W. R. Pinnell, Bacteriologist

Louisiana

President, State Board of Health, New Orleans
Cassius L. Clay, State Analyst, State Board of Health, New Orleans
Commissioner of Agriculture and Immigration, Baton Rouge (feeding stuffs)

Maine

Commissioner of Agriculture, Augusta

Chief Food and Drug Inspector Augusta (foods, drugs, and feeding stuffs)
Department of Agriculture, Orono (feeding stuffs)
James M. Bartlett, Chemist, Agricultural Experiment Station, Orono

Maryland

Food and Drug Commissioner, Department of Health, 16 W. Saratoga St., Baltimore (foods and drugs)
Dr. Wm. R. Stokes, State Bacteriologist, Baltimore
Dr. Wyatt W. Randall, Chief, Bureau of Chemistry, Baltimore

Massachusetts

Commissioner of Health, State Department of Health, 144 State House, Boston
Herman C. Lythgoe, Analyst, State Department of Health, Boston (foods and drugs)
Secretary, State Board of Agriculture, 136 State House, Boston (dairying and milk products)

Michigan

Dairy and Food Commissioner, Lansing (foods, feeding stuffs, dairying, and drugs)
State Chemist, Division of Chemistry, Agricultural Experiment Station, E. Lansing, Mich.
State Analyst, Dairy and Food Department, Lansing
A. R. Todd, Analytical Chemist, Dairy and Food Department, Lansing

Minnesota

Dairy and Feed Commissioner, New Capitol, St. Paul (dairying, foods, and feeding stuffs)
Julius Hortvet, State Dairy and Food Commission, Old Capitol, St. Paul

Mississippi

Commissioner of Agriculture and Commerce, Jackson (feeding stuffs)
W. F. Hand, State Chemist, Agricultural and Mechanical College, Agricultural College (foods and feeding stuffs)

Missouri

Food and Drug Commissioner, La Salle Building, St. Louis (foods and drugs)
Bureau of Dairying, Columbia
H. Edmund Wiedeman, Chemist, State Food and Drug Department, Holland Building, St. Louis

Montana

Director of Food and Drugs, Department of Public Health, Helena (foods and drugs)
 State Dairy Commissioner, Helena
 Wm. M. Cobligh, Chemist, Montana Agricultural College, Bozeman

Nebraska

Deputy Commissioner, Food, Drug, Dairy and Oil Commission, Lincoln
 W. S. Frisbie, Chemist, State Food, Drug, Dairy, and Oil Commission, Lincoln

Nevada

Commissioner, Food and Drug Control Department, Reno (foods, feeding stuffs, and drugs)
 M. B. Kennedy, Chemist

New Hampshire

Secretary, State Board of Health, State House, Concord.
 Chas. D. Howard, Chemist, State Board of Health, Concord (foods and drugs)
 B. E. Curry, Chemist, Durham (feeding stuffs)

New Jersey

Secretary, State Board of Health
 Dr. R. B. Fitz-Randolph, Chief, Division of Foods, Drugs, Sewerage, and Water, State Board of Health, Trenton (foods and drugs)
 W. G. Tice, Chief Chemist, State Board of Health, Department of Foods and Drugs, Trenton
 Director of Agricultural Experiment Station, New Brunswick (feeding stuffs)
 Chief, Bureau of Creamery and Dairy Inspection, Trenton (dairy and creamery products)
 Chas. S. Cathcart, State Chemist, Agricultural Experiment Station, New Brunswick

New York

Commissioner of Agriculture, Albany
 Department of Agriculture, Albany (foods and feeding stuff)
 Secretary, Board of Pharmacy, Albany (drugs)
 E. J. Wheeler, State Department of Agriculture, 79 Chapel St., Albany

North Carolina

Commissioner, Department of Agriculture, Raleigh
 W. M. Allen, State Food and Oil Chemist, Raleigh (foods and drugs)
 B. W. Kilgore, State Chemist, Department of Agriculture, Raleigh (feeding stuffs)

North Dakota

E. F. Ladd, Commissioner and State Chemist, Agricultural Experiment Station, Agricultural College (foods, feeding stuffs, and drugs)
 Robert Hulburt, Bacteriologist, Agricultural College
 Roe E. Remington, Food Chemist, Agricultural College
 W. F. Sudro, Drug Chemist, Agricultural College
 Matty Jongeward, Drug Chemist
 C. P. Guthrie, Drug Chemist, Agricultural College
 Louis Jackson, Paint Chemist

Ohio

Chief of Dairy and Food Division, Agricultural Commission, Columbus (foods, dairying, and drugs)
 S. K. Johnson, Columbus (feeding stuffs)

Oklahoma

Commissioner, Department of Public Health, Guthrie (foods and drugs)
 State Board of Agriculture, Oklahoma City (feeding stuffs)
 R. E. Andrews, State Chemist, Oklahoma City
 G. K. Dixon, Bacteriologist, Oklahoma City
 Dairy Commissioner, State Board of Agriculture, Oklahoma City

Oregon

Dairy and Food Commissioner, 510 Worcester Building, Portland
 A. S. Wells, State Chemist, State Dairy and Food Commission, 510 Worcester Building, Portland

Pennsylvania

Dairy and Food Commissioner, Department of Agriculture, Harrisburg (foods and dairying)
 Chief Chemist, Bureau of Chemistry, Department of Agriculture, Harrisburg (feeding stuffs)
 Wm. Frear, Chemist, State Dairy and Food Commission, State College
 Jas. A. Evans, Chemist, State Dairy and Food Commission, Erie
 F. T. Aschman, Chemist, State Dairy and Food Commission, Pittsburgh
 C. B. Cochran, Chemist, State Dairy and Food Commission, West Chester
 Chas. H. Lawall, Chemist, State Dairy and Food Commission, Philadelphia
 C. F. Schoen, Chemist, State Dairy and Food Commission, Scranton

Philippine Islands

Bureau of Health, Manila

Porto Rico

Director of Sanitation, P. O. Box 1108,
San Juan

Rafael del Valle Sarraga, Service of
Sanitation, P. O. Box 935, San Juan

Rhode Island

Chairman, Food and Drug Commis-
sion, State House, Providence (foods
and drugs)

Director, Agricultural Experiment
Station, Kingston (feeding stuffs)

Franklin N. Strickland, Executive
Secretary-Chemist, Room 21, State
House, Providence

South Carolina

Commissioner of Agriculture, Com-
merce and Industries, Columbia
(feeding stuffs, foods, and drugs)

A. C. Summers, Chief Chemist, De-
partment of Agriculture, Commerce
and Industries, Columbia

South Dakota

Guy G. Frary, Food and Drug Com-
missioner, Vermilion (foods, drugs,
and feeding stuffs)

Dairy Expert, Dairy Expert Depart-
ment, Brookings (dairies and dairy
products)

Tennessee

Commissioner, Food and Drug Com-
missioner, Nashville (foods and
drugs)

Commissioner of Agriculture, Nash-
ville (feeding stuffs)

M. E. Hinds, Chief Chemist, Nashville

Texas

Commissioner, Food and Drug De-
partment, Austin (foods and drugs)

E. H. Golaz, Chemist and Collabo-
rating Chemist, U. S. Dept. of Agri-
culture, Food and Drug Depart-
ment, Austin

D. F. Snyder, Chemist, Food and
Drug Department, Austin

Director Agricultural Experiment
Station, College Station (feeding
stuffs)

State Chemist, College Station

Utah

Commissioner, State Dairy and Food
Department, Salt Lake City

Herman Harms, State Chemist, State
Dairy and Food Bureau, 312 Boyd
Park Building, Salt Lake City

Vermont

Secretary, State Board of Health, 184
Church St., Burlington (foods and
drugs)

Director, Agricultural Experiment
Station, Burlington (feeding stuffs).

Dr. B. H. Stone, Director of Labora-
tory, Burlington

Virginia

Dairy and Food Commissioner, De-
partment of Agriculture and Immi-
gration, Richmond (dairying, foods
and feeding stuffs)

State Board of Pharmacy, Richmond
(drugs)

C. M. Bradbury, State Department
of Agriculture and Immigration, Di-
vision of Chemistry, Richmond

J. B. Weems, State Chemist, State
Dairy and Food Commission, Rich-
mond, Va.

H. V. Stewart, Bacteriologist

Washington

Commissioner of Agriculture, Division
of Dairy and Live Stock, Olympia.

Division of Foods, Feeds, Fertilizers,
Drugs, State Department of Agri-
culture, Olympia (foods, feeding
stuffs, and drugs)

Geo. A. Olson, State Chemist, Pullman
Dr. C. W. Johnson, State Chemist,
Seattle

West Virginia

Commissioner, Department of Agri-
culture, Charleston (foods and
drugs)

Wisconsin

Dairy and Food Commissioner, Madi-
son (dairying, foods and drugs)

Director, Agricultural Experiment
Station, Madison (feeding stuffs)
Chemist, Feed and Fertilizer Con-
trol, Madison

H. Kleuter, Chemist, Food and Drug
Department, Madison

Wyoming

Dairy, Food, and Oil Commissioner,
Cheyenne (foods, feeding stuffs,
and drugs)

Ross B. Moudy, State Chemist, Uni-
versity of Wyoming, Laramie

IV. MUNICIPAL LABORATORIES*

Alabama

Birmingham
Mobile
Montgomery

Arizona

Phoenix
Tucson

Arkansas

Fort Smith
Little Rock

California

Alameda
Berkeley
Los Angeles
Oakland
Sacramento
San Francisco
San Diego
San Jose
Stockton

Colorado

Boulder
Colorado Springs
Denver

Connecticut

Bridgeport
Hartford
New Britain
New Haven
New London
Norwalk
Norwich

Delaware

Newark
Wilmington

District of Columbia

Washington

Florida

Jacksonville
Key West
Tampa

Georgia

Athens
Atlanta
Augusta
Macon
Savannah

Hawaii

Honolulu

Idaho

Boise

Illinois

Alton
Cairo
Chicago
Danville
Elgin
Evanston
Quincy
Rockford
Rock Island
Springfield

Indiana

Evansville
Fort Wayne
Gary
Indianapolis
Marion
New Albany
Richmond
South Bend
Terre Haute

Iowa

Cedar Rapids
Clinton
Council Bluffs
Davenport
Des Moines

Kansas

Hutchinson
Kansas City
Leavenworth
Topeka
Wichita

Kentucky

Covington
Lexington
Louisville

Louisiana

Alexandria
Baton Rouge
Monroe
New Orleans

Maine

Augusta
Bangor
Brunswick

Maryland

Baltimore
Cumberland
Frederick

*Addr City Chemist, Department of Health (City), (State)

Massachusetts

Boston
Brookline
Cambridge
Clinton
Everett
Fall River
Gloucester
Haverhill
Lawrence
Lowell
Lynn
Medford
New Bedford
Springfield
Taunton
Waltham
Westfield
Worcester

Michigan

Ann Arbor
Battle Creek
Detroit
Grand Rapids
Kalamazoo

Minnesota

Duluth
Minneapolis
St. Paul

Mississippi

Meridian
Vicksburg

Missouri

Joplin
Kansas City
St. Joseph
St. Louis

Montana

Anaconda
Helena
Missoula

Nebraska

Lincoln
Omaha

Nevada

Reno

New Hampshire

Berlin
Dover
Manchester

New Jersey

Atlantic City
Bavonne

Camden
Hoboken
Jersey City
Newark
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Spokane
Tacoma

West Virginia

Charleston
Parkersburg
Wheeling

Wisconsin

Madison
Milwaukee
Oshkosh
Racine
Superior

Sociedad Quimica Argentina; Calle Lavalle, 1790; Buenos Aires, Argentina.
Société Chimique de Paris. Paris, France.
Société de Chemie Physique, Paris. M. Charles, 98 Rue du Cherche-Midi, Paris.

Société de Chimie Industrielle, Paris, France. Organized 1917. Le Secrétaire Général. 49. Rue de Mathurins, Paris, France.

Societa Chimica Italiana; Dr. Giacomo Ciamician, Torino, Italy.

Société de Chim.-Physicians of Paris, 9, Rue de Pagneux; C. Marie, Secretary; founded 1908; members 225; annual dues 5 fr.

Société Chimique de Belgique. Bruxelles, Belgien.

Société Chimique de France, 44; Rue de Rennes, Paris, France; P. Freundler, Secretary; founded 1857; members 1200; annual dues 36 fr.

Société Generale des Fabricants de Sucre de Belgique, Brussels, Belgium. No particulars given.

Société Royale de Pharmacie. Bruxelles, Belgien.

Société Royale des Sciences, Liège, Belgien

Société Royale des Sciences Medicales et Naturales de Bruxelles, 9a, Rue Montoyer, Bruxelles, Belgien.

Société Technique et Chimique de Sucrerie de Belgique. Brussels, Belgium. No particulars given.

Society of Chemical Industry, London, Broadway Chambers, Westminster, S. W., Prof. Henry Louis, President; C. G. Cresswell, Secretary; founded 1881; members 4500; annual dues £1 5s.

Society of Chemical Industry, Tokyo; Prof. Jokichiro Yemori, Tokyo, Japan.

Society of Chemical Industry of Victoria, Melbourne, Australia. No particulars given.

Society Chim. of Portugal, 141, Lusadas, Lisbon, Portugal; H. Mastbaum, Secretary; founded 1911; members 100; annual dues 5 Mil.

Society of Dyers and Colourists, 30 Pearl Assurance Bldgs.; J. B. Atkinson, Secretary; founded 1884; members 950; annual dues £1 1s.

Society of Public Analysts of London, 8, Duke St., Aldgate, E. C.; E. Richards Bolton and P. A. Ellis Richards, Secretaries; founded 1874; members 400; annual dues £1 1s.

The Chemical Society, Burlington House, London, W.; Stanley E. Carr, Assistant Secretary; founded 1841; members 3225; annual dues £2.

Verein Oesterreichischer Chemiker, Wien, Austria. No particulars given.

Ver. deutscher Eisenhüttenleute Germany, Breite Str. 27, Dusseldorf, Germany, E. Schrödter, Secretary; founded 1860; members 6000.

Vösterreichische Gesellschaft zur Förderung der Chemischen, Prague, Austria. No particulars given.

Zentralverein fuer die Ruebenzucker-Industrie Oesterreichs und Ungarns, Wein, Austria. No particulars given.

Engineering

American Institute of Electrical Engineers, 29 W. 39th St., New York, N. Y.

American Institute of Metals, Buffalo. N. Y.; W. M. Cores, Secretary; members 350; dues \$10.

American Institute of Mining Engineers, Engineers Bldg., 29 W. 39th St., New York City; Bradley Stoughton, Secretary; members 6000; dues \$12.

Association franc. des Eng. de Propriete Indust. of France, 19, Rue Blanche, Paris, France.

Associazione Elettrotechnica Italiana. Prof. Carlo Parropassu, General Secretary, Paroda, Italy.

Chemical, Metallurgical and Mining Society of South Africa; James Moir, Cape Town, South Africa.

Cold Storage and Ice Association of London, 3 Oxford Court, Cannon St.; J. Raymond, Secretary; founded 1900; members 150; annual dues £1 1s.

Engineering and Science Association of Ireland, 43, Dawson St., Dublin, Ireland; A. E. Porte and G. Idle, Secretaries; founded 1903; members 230; annual dues 15s.

Institute of Metals of London, Caxton House, Westminster; G. Shaw-Scott, Secretary; founded 1908,^p members 600; annual dues £2 2s.

Institute Mining Engineers of London, 39 Victoria St., Westminster; L. T. O'Shea and P. Strzelecki, Secretaries; founded 1889; members 3500.

Institute Mining and Metallurg of London, Salisbury House; C. McDermid, Secretary; founded 1892; members 2500; annual dues £3 3s.

International Congress Mines and Geology, 1915, London, England.

Iron and Steel Institute, London, 28 Victoria St., Westminster; G. C. Lloyd, Secretary; founded 1869; members 2400; annual dues £2 2s.

Mining Institute of Scotland, 39 Elmbank Crescent, Glasgow, Scotland; J. Barrowman, Secretary; founded 1878; members 675; annual dues £2 2s. £1 5s.

North of England Institute Mining & Mechanical Engineers, Neville Hall, Newcastle; L. Austin, Secretary; founded 1852; members 1300; annual dues £2 2s.

Société de l'Industrie Minérale, Saints Etienne, Loire, France.

Société Internationale des Electriciens, 292 Rue St. Martin, Paris, France.

The Illuminating Engineering Society, London; R. Lessing, 317 High Hilborn St., London, W. C., England. No particulars given.

The Institute Gas Engineers, London, 39 Victoria St., S. W.; W. T. Dunn, Secretary; founded 1863; members 875; annual dues £1 1s.

West of Scotland Iron and Steel Institute, 39 Elmbank Crescent, Glasgow, Scotland; R. G. Jenkins, Secretary; founded 1892; members 450; annual dues £1 1s.

Geology and Mineralogy

Edinburgh Geology Society, 1 India Bldgs., Edinburgh, Scotland; W. T. Gordon, Secretary; founded 1834; members 250; annual dues 12s. 6d.

Geologists' Association of London, University College, London, England; A. L. Leach, Secretary; founded 1858; members 800; annual dues 10s.

Geology Ges. Vienna, Franzensring 3; F. N. Schaffer, Secretary; founded 1907; members 342; annual dues 10k.

Geology Society of Luxembourg, Arlon, Rue St. Jean, 59; A. Jerome, Secretary; founded 1894; members 60; annual dues 5 fr.

Geology Society of America, care of American Museum Natural Hist., New York; E. O. Hovey, Secretary; founded 1888; members 375; annual dues \$10.

Geology Society of Belgium, 7, Place de l'Université, Liege, Belgium; P. Tournier, Secretary; members 350; annual dues 15 fr.

Geology Society of Glasgow, 207 Bath St.; P. Macnair, Secretary; founded 1858; annual dues 10s.

Geology Society of London, Burlington House; A. S. Woodward, Secretary; founded 1807; members 1300; annual dues £2 2s.

Geology Society of South Africa, P. O. Box 1071, Johannesburg, South Africa; G. S. Corstorphine, Secretary; founded 1895; members 200; annual dues £2 2s.

Geology Ver. of Frankfurt, Viktoria Allee, 7, Frankfurt a. M.; Geh. Rat.; F. Drevermann, Secretary; founded 1910; annual dues 10M.

German Geology Society, Invalidens tr. 44, Berlin, Germany; Dr. Bartling and Dr. Fleigel, Secretaries; founded 1848; members 1000; annual dues 30M.

German Mineralogy Society, Jena; G. Linck, Secretary; founded 1908; members 275; annual dues 7½M.

Ges. f. Mineralogy u. Geology of Jena, Mineralogy Institute; K. Kolesch, Secretary; founded 1909; members 130; annual dues 2M.

Hungarian Geology Society, Stefania ut 14, Budapest; K. v. Papp, Secretary; founded 1850; members 800; annual dues 10 Kr.

Imperial Mineralogy Society of St. Petersburg, Russia; F. N. Tschernyschew, Secretary; founded 1817; members 400; annual dues 5 Rub.

International Congress of Hydrology, Climatology and Geology; 18 rue Beaujon, Paris, France; Ch. Amat, Secretary; founded 1904.

Italian Geology Society, Via S. Susanna 13, Rome, Italy; A. Verrie, Secretary; founded 1881; members 300; annual dues 15 lire.

Liverpool Geology Association, Lord Derby Museum, William Brown St.; annual dues 5s.

Liverpool Geology Society, Royal Institution; W. A. Whitehead, Secretary; founded 1859; members 80; annual dues 10s. 6d.

Manchester Geology and Mining Society, 5 John Dalton St., Manchester, England; S. A. Smith, Secretary; founded 1838; members 400; annual dues £2 2s.

Mexican Geology Society, 6a, Cipres 176, Mexico; P. Waitz, Secretary; founded 1904; members 120; annual dues \$12 Mex.

Minerology Ges. of Vienna, Vienna, Austria; A. Himmelbauer, Secretary; founded 1901; members 152; annual dues 10k.

Minerology Society of London, London, England, Natural History Museum, S. Kensington; G. T. Prior, Secretary; founded 1876; members 150; annual dues £1 1s.

Oberrheinischer Geology Ver., Heidelberg, Germany; W. Salomon, Haberle, Secretary; founded 1871; members 460; annual dues 5M.

Royal Geology Society of Cornwall, Penzance, England; J. B. Cornish, Secretary; founded 1814; members 100; annual dues £1 1s.

Société de Mineralogy de France, 1 Rue Victor Cousin, Paris, France; R. Tronquoy, Secretary; founded 1878; members 155; annual dues 20 fr.

Société Geologie de France, 28 Rue Serpente, Paris, France; P. H. Tritel and F. Canu, Secretaries; founded 1830; members 525; annual dues 30 fr.

Société Belge de Geologie, de Paleontologie et d'Hydrologie,

Société Geologique de Belgique, Lüttich, Belgien.

Society of Geology, Paleontology and Hydrology of Belgium, Brussels, Belgium, 19 Rue Tasson Snel; Baron L. Greindl, Secretary; founded 1887; members 500; annual dues 15 fr.

Stockholm Geology Association, Stockholm, Sweden; H. Munthe, Secretary; founded 1871; members c. 450.

Yorkshire Geology Society, Sheffield, Burnside, Pitsmoor Road; annual dues 13s.

VIII. PUBLICATIONS

I. TECHNICAL AND SCIENTIFIC JOURNALS, • UNITED STATES AND FOREIGN

- Abstracts of Bacteriology.** bm. \$5.00d \$5.50f. Williams & Wilkins Co., Baltimore, Md.
- Acetylene,** 30 Red Lion Square, London, E. C.
- Agricultural Gazette of New South Wales,** The. m (6d.)d. Minister of Agriculture, Sydney, N. S. W.
- Agricultural Journal of India,** The. q R6 (R2)d and f. Messrs. Thacker, Spink & Co., Calcutta, India.
- Allgemeine Forst- und Jagd-Zeitung.** m M16d. J. D. Sauerlander, Frankfurt am Main.
- Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation.** w K12d. K12 and postage, f. Berein Österreich. Versuchs-station und Akademie für Brau- und Malz-industrie in Wien, Michaelerstrasse Nr. 25, Wien XVIII/1.
- American Druggist and Pharmaceutical Record.** m \$1d. 62-8 W. Broadway, New York City.
- American Fertilizer,** The. bw \$2 (\$25) d, \$3f, \$2.50 Can. Ware Bros., 1010 Arch. St., Philadelphia, Pa.
- American Food Journal,** The. m \$2.50. (\$15)d, \$2.50f. 15-21 S. Market St., Chicago, Ill.
- American Gas Engineering Journal** (formerly The American Gas Light Journal). w 2 vols. \$3d, \$5f. E. P. Calender, 42 Pine St., New York City.
- American Journal of Anatomy,** The. bm \$5¢, \$5.50f. Wistar Institute, 36th St. and Woodland Ave., Philadelphia, Pa.
- American Journal of Botany.** m \$4 (\$50)d, \$4.40f. 41 N. Queen St., Lancaster, Pa.
- American Journal of Diseases of Children.** m \$3 (\$30)d, \$3.35 (\$30)f. American Medical Association, 535 N. Dearborn St., Chicago, Ill.
- American Journal of the Medical Sciences,** The. m \$5d. Lea & Febiger, Philadelphia and New York.
- American Journal of Pharmacy.** m \$3 (\$25)d. 145 N. 10th St., Philadelphia, Pa.
- American Journal of Physiology,** The. m 4 vols. \$5.50 per vol. Williams & Wilkins Co., Baltimore, Md.
- American Journal of Public Health.** m [N.S.] \$3 (\$30)d, \$3.50 (\$80)f. \$3.25 Can. 755 Boylston St., Boston, Mass.
- American Journal of Science,** The. m 2 vols. \$6d, \$6.25 Van., \$6.40f. New Haven, Conn.
- American Journal of Syphilis.** q. \$d. (\$5.40 Canada, \$5.50f.) C. V. Mosby Co., St. Louis, Mo.
- American Naturalist,** The. m \$4 (\$40)d. Science Press, Lancaster, Pa.
- American Perfumer and Essential Oil Review,** The. m \$1(\$10)d, \$2(\$20)f. Perfumer Publishing Co., 80 Maiden Lane, New York City.
- American Photography.** m \$1.50 (\$75)d, \$2.25f. American Photography Publishing Co., 221 Columbus Ave. Boston, Mass.
- Anales del instituto médico nacional.** Irr Secretaría de Instrucción Pública y Bellas Artes, Mexico City.
- Anales de la sociedad española de física y química.** m, except Aug. and Sept., 15 pesetas, d. D. Ramón Llory Gamboa, Calle de Jorge Juan num. 59, Madrid, Spain.
- Anales de la sociedad química Argentina.** q Rue Carlos Pellegrini, 62 Buenos Aires, Argentine Rep.
- Analyst,** The. m. L1, 1s/2s)d Simpkin, Marshall, Hamilton, Kent & Co., Ltd., 2, 4, 6, 8, Orange St., London, S. W., England.
- Anatomischer Anzeiger.** Irr about 3 vols., 24 nos. per vol. M16d. Gustav Fischer, Jena.
- Anatomical Record,** The. m \$3d, \$3.25f. Wistar Institute, 36th St. and Woodland Ave., Philadelphia, Pa.
- Annalen der Chemie, Justus Liebig's.** sm 4 vols. of 3 nos. each. M24d. C. F. Winter'sche Verlagshandlung. Leipzig. Rossstr. 6.
- Annalen der Physik.** C. F. Winter'sche Verlagshandlung, Rossstr. 6. Leipzig.
- Annals of Botany.** q 30s (14s)d, (15s6d)f. Humphrey Milford, Oxford University Press, Amen Corner, London, E. C.
- Annales de chimie** m F25d, F28f (or F45d and F50f for both Am. chim

- and Ann. phys.). Masson et Cie, Boul. Saint-Germain, 120, Paris.
- Annales de chimie analytique et Revue de chimie analytique. m F10 (F1)d, F12(F1)f. C. Crinon, 45 Rue Turenne, Paris 3.
- Annales des falsifications. m F20(F2)d, F22.50(F2)f. 56 Rue Madame, Paris VI.
- Annuaire géologique et minéralogique de la Russie. Irr F20 (F5)f. M. c. Directeur, Novo-Alexandrie, gov. Lublin, Russia.
- Annales d'hygiène publique et de médecine légale. m F24d, F25f. J. B. Baillière et Fils, 19 Ruehautefeuille, Paris.
- Annales de l'institut Pasteur. m \$4d. Masson & Cie, 120 Blvd. St. Germain, Paris.
- Annales des mines. m[11] 2 vols. F20 Paris, F24d, F32f. H. Dunod and E. Pinat, 47-49 Quai des Grands-Augustins, Paris.
- Annales de physique. m F25d, F28f (or 45d, F50f, for both Ann. phys. and Ann. chim.). Masson et Cie, Boul. Saint-Germain 120, Paris.
- Annalen der Physik. 15 nos. yearly, 3 vols. M54d. J. A. Barth. Dorrienstrasse 16, Leipzig.
- Annales de la science agronomique française et étrangère. m 2 vols. F24d, F26f. Berger-Levrault, 5-7 rue des Beaux Arts, Paris, France.
- Annali ds chimica applicata. sm L30d, L34f. G. Paterno, Via Palermo, N 3, Roma.
- Annali d igiene sperimentale. 4 times a year. L18f. Corso Raffaello 28, Torino, Italy.
- Annals of Tropical Medicine and Parasitology. Irr 1£2s6d d. University Press of Liverpool, 57 Ashton St., Liverpool.
- Annual Reports of the Society of Chemical Industry on the Progress of Applied Chemistry. Vol III. 495 pp. Issued by the Society of Chemical Industry, 46-47 Finsbury Square, London. E C., 2. 1919. Price, to members, 5s. 6d; to non-members, 10s. 6d.
- Apotheker-Zeitung. bw M10 d and f (25 pfg/f. Deutschen Apotheker-Verein, 87 Levetzowstr. 16b, Berlin N. W. 87.
- Apotheker-Zeitung, Deutsch-Amerikanische. m \$1. 104 John St., New York.
- Arbeiten aus dem Kaiserlichen Gesundheitsamte, about 8 nos. a year, 2 or more vols., price varies. Julius Springer, Berlin.
- Archief voor de Rubberculture in Ned. Indië. No information received on price and issues per year. Ruysgrok & Co., Batavia, Java.
- Archiv für Anatomie^a und Physiologie. 1914. M54d (both) Physiol. Abteilung 6 nos., Heft 1 and 2, M26; Anatom. Abteilung 6 nos., Heft 1 M40d. Veit & Co., Leipzig.
- Archives de biologie. Irr F50d. Masson & Cie, Paris.
- Archiv für Chemie und Mikroskopie. bm K6d. Wilhelm Frick, 1 Graben 27 bei der Pestsäule, Wien.
- Archiv für Entwicklungsmechanik der Organismen. Irr 4 nos. to a vol., 1 or 2 vols. (2). Price varies. Wilhelm Engelmann, Leipzig, Ger.
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- Archiv für die gesamte Physiologie des Menschen und der Tiere (Pflüger's). Irr (4). Price varies. Martin Hager, Argelanderstr., 148, Bonn.
- Archiv für Gynaekologie. Irr August Hirschwald, Unter den Linden, 26, Berlin, N. W.
- Archiv für Hygiene. Irr about 4 vols \$14.75. R. Oldenbourg, Munich.
- Archives of Internal Medicine, The. m 2 vols. \$4.00(\$5.50)d, \$4.40f. \$4.25 Can. American Medical Association, 535 Dearborn St., Chicago, Ill.
- Archives internationales de pharmacodynamie et de therapie. F20d. E. Gley, Rue Monsieur le Prince, 14, Paris.
- Archives internationales de physiologie. Irr F20d and f. Leon Fredericq, Liege, Belgium, or Octave Doin, Paris, Place de l'Odeon 8
- Archiv für Kinderheilkunde. Irr M15. Prof. Dr. A. Baginsky, Berlin W, Kurfürstenstr., 98 p.

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- Archives de médecine expérimentale et l'anatomie pathologique. bm** F30d, F34f. Masson et Cie, 120 Boulevard Saint-Germain, Paris.
- Archives Néerlandaises des sciences exactes et naturelles. Irr** La Société Hollandaise des Sciences à Harlem, Holland.
- Archiv für pathologische Anatomie und Physiologie und für klinische Medizin (Virchow's). m** M64d Georg Reimer, Berlin W., 10 Genthiner Strasse.
- Archiv der Pharmazie. m** M12f. Deutschen Apotheker-Verein, Berlin N. W. 87, Levetzowstr, 16b.
- Archiv für Protistenkunde. m** Gustav Fischer, Jena.
- Archiv Schiffs- und Tropen-Hygiene. Irr** M20d, M24f. J. A. Barth, Dorostrasse 16, Leipzig.
- Archivio per le scienze mediche. bm** L20d, L22f. B. Morpurgo and R. Fusari, Corso Raffaello, 30 Torino, Italy.
- Archives des sciences physiques et naturelles. m, 2 vols.** F25(F3)d, F30(F3)f, Bureau des Archives, Rue de la Pélisserie, 18, Geneva.
- Archief voor de Suikerindustrie in Nederlandsch-Indie. w** W. C. Dickhoff, Editor, Surabaya, Java.
- Archiv für Verdauungs-Krankheiten. bm** M4.60d. S. Karger, Karlstrasse 15, Berlin.
- Archiv für Zellforschung. Irr** Price varies. Wilhelm Engelmann, Berlin.
- Arkiv for Kemi, Mineralogi och Geologi. Irr** K15f. Almqvist and Wiksells Boktryckeri-A.-B., Upsala, Sweden.
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- Beihefte zum Tropenpflanzer. Irr.** Supplement to der Tropenpflanzer. Der Tropenpflanzer, Pariser Platz 7, Berlin, N. W.
- Beiträge zur Mineralogie von Japan. Irr** Kelly & Walsh, Yokohama, Japan
- Beiträge zur pathologischen Anatomie und zur allgemeinen Pathologie. Irr** \$11.50. Gustav Fischer, Jena.
- Berichte der deutschen chemischen Gesellschaft. 18 nos. a year. M25d, M32f.** R. Friedländer & Sohn, Berlin, N. W., Karlstr. 11.
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- Berichte über die Verhandlungen der K. Sächsischen Gesellschaft der Wissenschaften. M1.60 to M4d and f.** B. G. Teubner, Leipzig.
- Berliner klinische Wochenschrift. w** \$5.00 Aug. Hirschwald, Berlin.
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- Beton und Eisen. M16d, M21f.** Wilhelm Ernst & Sohn, Wilhelmstrasse 90, Berlin W 66.
- Betterave, La. bw** F6(F.30)d, F7.30 (F.35)f. Rue de Mons, 32, Valenciennes.
- Biedermanns Zentralblatt für Agrikultur Chemie und rationellen Landwirtschaftsbetrieb. m** M22d. Oskar Leiner, Königstrasse 26b, Leipzig.
- Biochemical Bulletin. q** \$2.75 (varies) d, \$3f. Columbia Univ. Biochemical Assoc. New York City.
- Biochemical Journal, The. bm** 21sd. C. F. Clay, Cambridge Univ., Press, Fetter Lane, London, E. C.
- Biochemische Zeitschrift. Irr** M14d. Julius Springer, Berlin.
- Biological Bulletin, The. m** \$6d, (\$0.75)f. New Era Printing Co., Lancaster, Pa.
- Bohmische Bierbrauer, Der. w** (N.S.) K16d. Prag, 872-11.

- Boletin del instituto nacional de higiene de Alfonso XIII. q 1913. Imprenta de Hijos de Nicolás Moya, Garcilaso, 6 y Carretas, 8, Madrid, Spain.
- Bollettino chimico farmaceutico. sm L8 (L.50)d, L10(L50)f. Via Fiori Oscuri N. 13 (Farmacie di Brera) Milano.
- Boston Medical and Surgical Journal. w 2 vols. \$10d. W. M. Leonard, 101 Tremont St., Boston.
- Botanical Abstracts. m 2 v. a year. \$6.00d, \$6.50f for 2 vol. Williams and Wilkins Co, Baltimore. Md.
- Botanisches Centralblatt. w M30d. Gustav Fischer, Jena.
- Botanical Gazette, The. m \$7(\$7.75)d, \$7.84(\$8.6)f. \$7.35 (\$7.8)Can. Univ. of Chicago Press, Chicago, Ill.
- Bourse aux cuirs de Liège. w F5d, F6f. 24, Quai des Tanneurs, Liège, Belgium.
- Brasserie et malterie. sm 4 (20). F20d, F20 and postage, f. M. Lassort, 7, Rue des Jardiniers, Nancy France.
- Brau- und Mälzer-Zeitung. sm K10d M10f. Leichtensteinstrasse, 30, Vienna, IX.
- Brau- und Malzindustrie, Die. sm K16d, M16f. Schwarzenbergplatz, 4 Vienna, III/3.
- Brewer and Wine Merchant, 73 Farringdon St., London, E. C.
- Brewers' Gazette, 2 Devonshire Sq., London, E. C.
- Brewers' Journal and Hop and Malt Trades' Review, The (London). m (583). 20s(2s)d. The Brewers' Journal Office, Eastcheap Bldgs., London, E. C.
- Brewing Trade Review, The. m (332). £1d. W. H. Phelp, 30 Little Trinity Lane, Upper Thomas Str., London, E. C.
- Brick and Clay Record. sm. \$2(\$2.20)d, \$3f. Kenfield-Leach Co., 445 Plymouth Court, Chicago, Ill.
- British Clayworker, The. m. 8s (82d) d. 43 Essex St., Strand, London.
- British Food Journal and Hygienic Review. m. 7s6d(7) d)d. Harold E. Carr, 32 Shaftesbury Ave., Picadilly Circus, London W.
- British Journal of Photography. w. \$3.17(2d)d, 8s(2d)f. Henry Greenwood & Co., 24 Wellington St., Strand, London.
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- Oils: Commercial Oils, Vegetable and Animal**. I. F. Laucks 12mo. 138 pp. Price, \$1.25. John Wiley & Sons, Inc., New York.
- Oils**. The Production and Treatment of Vegetable. T. W. Chalmers. London: Constable & Co., Ltd. 1918. Pp. xi+152. Price 21s. net
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- Zinc Industry. E. A. Smith. 8vo. 223 pp. Price, \$3.50. Longmans, Green & Co., New York.

IX. NEWS AND NOTES

Alcohol. The California Packing Corporation is preparing to manufacture alcohol fuel as a substitute for gasoline at its cannery at Honolulu. Figures show that waste molasses produced on the Islands yearly exceeds 135,000 tons, which can be converted by a new process into more than 9,000,000 gallons of motor fuel. Plants there now have an output of about 1200 gallons of the new fuel daily and its use is proving very successful.

Arnold Hoffman & Co., Inc. vs. Mathieson Alkali Works, Inc. Arnold Hoffman & Company, Inc., are asking damages of \$900,000 of the Mathieson Alkali Works, Inc., whose factories are located at Niagara Falls, New York, and Saltville, Va., for alleged breach of contract. It is alleged that Arnold Hoffman & Company, was the defendant corporation's sole distributing agent for the sale of its products which comprise caustic soda, soda ash, bleaching powder, and chlorine. It is alleged that a selling contract was entered into between the parties, whereby the Providence concern was to continue handling the sales agency for a period of three years from December 31, 1919. It is alleged that the Mathieson Company repudiated the contract.

Arsenic. The domestic production of arsenic during 1919 was 5900 short tons as compared with 6400 short tons in 1918.

Imports of arsenic for the first nine months of 1919, were 1389 short tons. It is therefore safe to estimate that the imports for the year will amount to approximately 1550 short tons. Most of the imports were from Canada and Mexico, though some arsenic came into the United States from Belgium and Japan.

The quantity of arsenic available for consumption in 1919 was approximately 7450 short tons as compared with 7170 short tons in 1918. There were no exports either of foreign or domestic arsenic during the first nine months of 1919.

It was reported to the Geological Survey that two domestic companies who produced considerable arsenic in 1918 did not produce in 1919 on account

of the low price of arsenic and because of the ease with which supplies could be obtained.

Barrett Co. and National Aniline Co. merger. It is reported that the merger of the Barrett and National Aniline Companies will be effected to permit more economic operation of the two companies.

British Chemical and Dyestuff Trader's Association. A conference was held recently in Manchester, England, to decide upon the establishment of a British Chemical and Dyestuff Trader's Association.

British Chemists' Working Conditions. Average salaries, including bonus.

AGE	INDUSTRY	ASSISTANTS TO PRIVATE PRAC- TITIONERS	GOVERNMENT SERVICE	MUNICIPAL SER- VICE (WHOLE TIME)	TEACHING	AVERAGE
21-24	£268		£256		£184	£250
25-29	345		327	£284	270	328
30-34	435	£289	346	290	291	390
35-39	546		447	360	421	499
40-44	606	484	503	440	400	523
45-49	712	400	545	653	481	502
50-54	883	275	1290	775	653	789
55-59	609		586	531	766	571
60 and over	610		840		888	747

California Institute of Technology.

The name of the Throop College of Technology at Pasadena, has been changed to the California Institute of Technology. The training of engineers of the creative or research type is to be given special emphasis. The faculty is being strengthened by many notable additions and it will include among its members Dr. Arthur A. Noyes, Dr. Robert A. Millikan, Dr. Albert A. Michelson, and Dr. Harry Bateman.

Cement. Cement drain tile for alkali soil is recommended by reason of its durability.

Ceramics. Rutgers College is to add to its equipment a first class Ceramic Institute for instruction and research work.

Chandler Medal. The Chandler Medal has been presented to Willis Rodney Whitney, the director of the research laboratory of the General Electric Company.

Citrus Fruits' Research Laboratory. The California Fruit Growers' Exchange has established a research laboratory in Corona, Italy.

Colors. In 1918 Italy manufactured over 3,000,000 pounds per month of mineral colors.

Cork. The Association of Corkwood Manufacturers of Portugal, report that the total world production of corkwood is estimated at 180,000,000 kilos, or 396,832,000 pounds, of which 45 per cent is produced in Portugal, 30 per cent in Spain, 5 per cent in France and Italy, and 20 per cent in Algeria and Tunis. Portugal probably will maintain its position for several years. Forests in Algeria and Tunis, the exploration of which began recently, may produce larger quantities of corkwood in the future. Eventually Morocco will become the first producing country of corkwood in the world.

Corn Products Refining Company's Plant. The Corn Products Refining Company is to erect a new plant near Kansas City in the corn belt, which will materially increase the output of refined products. The cost of the new plant will be in the neighborhood of \$7,000,000.

Cotton. Two million spindles are necessary to convert cotton into automobile fabrics.

Dyes. The German Institute for Dye Research is being organized in Dresden with a branch at Chemnitz in the center of the German textile industry, under the direction of Professor Ostwald. The Institute is a national institution, supported by voluntary contributions from dye and textile industries, to maintain the superiority of German dyes.

Dyes. Dr. Chas. H. Herty, editor of the *Journal of Industrial and Engineering Chemistry*, presents some interesting information regarding the activity of Senator Moses of Manchester, N. H., and of Harry S. Knight, of Sunbury, Pa., in opposition to the Longworth Dye Tariff bill. Dr. Herty says in the June, 1920, issue of his journal:

"Speaking of Senator Moses, geography is a strange thing. Whoever would have thought that the opposition to this bill would have brought

about so close a union of two towns, Manchester, N. H., and Sunbury, Pa. Naturally one thinks of Manchester and the great Amoskeag Manufacturing Company when one thinks of Senator Moses. But what about Sunbury, a small Pennsylvania town of 15,000 inhabitants, according to the census of 1910? Doubtless it has grown some since then.

"Our attention was first called to Sunbury by the Report of the Alien Property Custodian which shows (pages 133 and 352) that the Custodian seized 80 per cent of the stock (preferred) of the Susquehanna Silk Mills, Sunbury, Pa., because it was enemy-owned. At Sunbury are located also the Sunbury Converting Works, which we are informed were owned by the Susquehanna Silk Mills. At the Senate hearings a rather violent attack upon the bill was made in the form of a statement filed by the Sunbury Converting Works. Furthermore, among the signers of the rather notorious Memorandum in opposition to the purchase by the Government through the Textile Alliance, or other official agency, of dyes, directly from the foreign manufacturers' appeared again the name of the Sunbury Converting Works. Now it appears that both the Susquehanna Silk Mills and the Sunbury Converting Works were represented legally by Mr. Harry S. Knight of Sunbury, Pa., at the time of the seizure by the Alien Property Custodian.

"But we are getting ahead of the story, for we learned that only to-day. To resume—after the bill had received the approval of the Committee, Senator Moses introduced an extensive amendment, which dye manufacturers immediately felt could have no other effect than the destruction of the American dye industry. Fortunately the Tariff Commission studied the amendment and reported to the Finance Committee that it was unworkable. But that, isn't the interesting part of the story. In April an extensive reply to the criticism of the Tariff Commission was made by Mr. Harry S. Knight, of Sunbury, Pa. His reply showed such an intimate acquaintance with the Moses amendment that one could easily get the impression that he had written the amendment himself.

"On our journey to Paris last fall we had a delightful ship-companion in

the person of Mr. Harry S. Knight, of Sunbury, Pa. At that time we knew nothing of his interest in dyes. On Tuesday afternoon, we entered the Senate gallery and were surprised to find in the same section our ship-companion, Mr. Knight,—surprised, because we had not associated him for a moment with the Mr. Knight who had replied to the Tariff Commission's criticism. Toward the end of the afternoon Senator Moses left the floor, seemingly somewhat hurried. While leaving he passed near our gallery and motioned toward that part of the gallery where Mr. Knight was sitting. Immediately Mr. Knight rose and the two left the Chamber by different doors but at the same moment. Perhaps it was a mere coincidence. Possibly Mr. Knight had a sudden uncontrollable desire to take a smoke. We know not. There are some who even go so far as to believe that Mr. Knight wrote the Moses amendment."

Dyestuffs. After a brief reference to Senator Moses' amendment to the dye bill, the *American Dyestuff Reporter* says in its leading editorial on May 24, 1920: "Still more interesting as a subject for contemplation this week is recent correspondence from Spain published in *Drug and Chemical Markets* that Germany is about to undertake the operation of certain Spanish dye plants. It should receive the very widest possible publicity at once. The news of the Germans' Hispanic activities goes to show, for one thing, that it is impossible to be too careful. And it again proves that German cunning, which so many opponents of the dye measure would minimize down to the ultimate minim, is quite up to par and functioning normally.

"Presumably, the framers of the Peace Treaty believed that they had effectually closed every possible loophole against Germany's future interference with the development of coal-tar chemical industries in their several countries. But they have all too evidently overlooked a bet, and now the only possible way to 'play it safe' is the adoption of protective legislation of the kind specified in the present unamended dye bill.

"It is not so much a question of thwarting Germany as it is of protecting ourselves. Measures aimed solely at the Fallen Empire will not do. On this particular question, as well as several others where the need is better recog-

nized by our Solons, it is distinctly up to the United States to look out for itself first. Then, if we care to, we shall be in a far better position to be charitable to unfortunate debtor countries."

Dyestuffs. The British Dyestuffs Corporation, Limited, has discovered at their Huddersfield Laboratories the secret of manufacturing Alizarine cyanine green dye on a commercial scale. This green dye was first discovered in Germany at the works of Bayer & Co. in 1894, and was manufactured exclusively by Germany before the war.

Dyestuffs. Ault & Wiborg Company have sold their dye factories at Cincinnati; St. Bernard, Ohio; and Norwood, Ohio, to a Swiss syndicate—The Swiss Company. Those interested in the company are: The Society of Chemical Industry, The Sandoz Chemical Works, and J. R. Geigy. Mr. Ault announces that one of the stipulations made by the Ault & Wiborg Company is that: "Not one mill of German money, directly or indirectly, remotely or otherwise, would or could be used at any time, either in the acquisition or the expansion of the industry."

Dyestuffs. It is estimated by E. I. du Pont de Nemours & Company, that more than 67,500 factories in the United States are dependent to some extent upon supplies of dyestuffs. These include silk, wool, cotton and knitting mills, paper mills, the leather industry and hundreds of other establishments employing more than 2,000,000 workers, and representing investments amounting to \$4,000,000,000. The production of these factories is valued at \$6,000,000,000, which is one-fourth of the country's total output of manufactured goods.

Dyestuffs. Japan was the best customer of the United States for aniline dyes during 1919, purchasing to the extent of \$2,151,191. China took dyes valued at \$1,609,060, and British India \$1,562,244. Canada paid us \$1,015,334, and Brazil \$773,449. Spain's purchases amounted to \$535,383.

Equipment for Gases. The Hercules Engineering Corporation have created a department for the design and construction of special equipment for generating and handling commercial gases.

Forge Shop. Allis-Chalmers have developed one of the most complete forge shops in the United States, and is in a position to meet the strictest requirements of the United States Government, the American Bureau of Shipping, Lloyds, and the American Society of Testing Materials.

German Chemical Companies. Dividends by German chemical companies are announced as follows: Chemische Fabrik Helfenberg, 15 per cent; C. A. F. Kahlbaum, 25 per cent; Chemical Works, formerly H. Scheidemandel, 15 per cent, and a bonus of 15 per cent. The firm of P. Beiersdorf and Co., in Hamburg, has been transformed into a limited liability company, with a capital of 2,410,000 marks.

German Idea of Chemical Foundation, Inc. *Die Chemische Industrie.* August, 1919, is impressed with the idea that the stock of the Chemical Foundation is so widely distributed and that each stockholder is allowed only two shares of voting stock. The author is impressed with the fact that the patents of the Chemical Foundation are open only to manufacturers who must prove their Americanism and who are able to qualify by their technical ability. The author urges that the development of the Chemical Foundation shall be watched very closely by German interests, as the Foundation represents the shrewdest and most aggressive organization formed abroad against the German chemical industry.

Glauber's Salt. The British Trade Commission at Winnipeg, Canada, reports the discovery of a lake of solid Glauber Salt. It covers one hundred acres and contains approximately 2,000,000 tons which analyzes 95 per cent pure.

Glauber's Salt. An estimate of precipitated Glauber's salt in some of the Siberian lakes is as follows: (1) The Great Marmyshansk Lake—144,000,000 poods (2,600,000 short tons) of crystalline salt ($\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$) and 22,000,000 poods (397,210 short tons) of evaporated Glauber's salt; (2) Little Marmyshansk Lake—25,000,000 poods (451,400 short tons) of crystalline salt; (3) Lake Tuskal (Minusinsk district) up to 100,000,000 poods (1,805,500 tons) of crystalline salt; (4) Lake Varche (Minusinsk district)—up to 100,000,000 poods (1,805,500 tons) of precipitated crystalline salt and an enormous quantity of Glauber's salt in solution.

Imports and Exports of Chemicals.

Imports and exports of certain chemicals as reported by the Bureau of Foreign and Domestic Commerce, for January, 1920, and the figures for January, 1919, as finally revised, are as follows:

Exports of chemicals		
	Jan., 1919	Jan., 1920
	pounds	pounds
Acids:		
Carbolic....	229,497	440,832
Nitric.....	49,411	13,270
Picric.....	22	5,567
Sulphuric...	1,067,763	1,768,749
Calcium acetate	55,765	3,632,782
Calcium carbide	2,286,388	736,959
Calcium chloride.....	1,579,847	2,983,782
Copper sulphate	2,847,199	346,947
Potassium chlorate.....	410,979	409,154
Soda:		
Caustic.....	17,402,125	14,180,004
Sal soda.....	1,453,780	552,193
Soda ash	15,034,056	5,676,972
Sodium silicate	2,008,597	1,771,143
	value	value
Dyes and dye-stuffs..	\$2,318,061	\$1,449,153

Imports of chemicals

Calcium acetate and chloride (crude), carbide and nitrate	11,260,828	5,684,135
Dyes.....	216,952	539,144
Gums	4,694,962	12,328,990
Potassium carbonate, including crude or black salts	120,953	1,289,938

Insurance. The North British & Mercantile Insurance Company of New York, The Commonwealth Insurance Company of New York, The Pennsylvania Fire Insurance Company, of Philadelphia, The Mercantile Insurance Company of America, also of New York, have established Departments of Chemical Risks.

Italy's Acid Output. Italy produces approximately 40,000,000 pounds of hydrochloric acid annually; 15,000,000 pounds of nitric acid monthly; 100,000 pounds of sulphuric acid monthly; 300,000 pounds of citric acid monthly; 50,000 pounds of lactic acid monthly.

Japanese Chemical Industry. During 1919 the chemical industry in Japan spent more money in the extension of its works than any other industry. Forty-seven factories were enlarged and 33,957,000 yen were added to the authorized capital of chemical companies. Of the 213 manufacturing companies which went out of business during the year, 57 were chemical works with total capitalization 26,638,000 yen.

Laboratories. In the United States there are about 275,000 manufacturing concerns. Less than one-fourth of one per cent have laboratories of any kind. Not over one-eighth of one per cent have laboratories worth mentioning. About one hundred in all have thoroughly equipped research laboratories.

Machinery Exhibit. A permanent exhibit of products of fifteen non-competitive machinery manufacturers has been opened by the Allied Machinery Company of America, at Centre and Walker Streets, New York City.

Magnesium Chloride. The Dow Chemical Company manufactures large quantities of fused magnesium chloride.

Marble. The marble deposits in central Ontario are of immense magnitude, running for hundreds of feet without a flaw. The strata lies in a vertical position and can be worked with great economy.

Marden, Orth & Hastings. Marden, Orth & Hastings of New York City have separated the sales department of coal-tar intermediates from the main company, and incorporated under the name of Calco Chemical Company.

Mathematicians. Dantzig, Pfeiffer & Ritt, consulting mathematicians, undertake to handle all problems arising in industry for the solution of which the knowledge of a mathematical specialist may be necessary. Their offices are located at 500 West 116th Street, New York.

Mellon Institute. Association Fellowships of the Mellon Institute.

	COMPANIES	FOUNDATIONS
Leather belting .	40	\$4900
Refractories	84	7000
Canning.	71	6000
Leather soling. .	60	3500
Magnesia products.	4	6000
Asbestos....	10	3500
Fiber board containers	20	3000
Insecticides.....	9	3500
Laundry	2500	5000

Mellon Institute. Industrial fellowships of the Mellon Institute.

MARCH TO MARCH	NUMBER OF FELLOWSHIPS	NUMBER OF FELLOWS	AMOUNTS CONTRIBUTED
1911-1912	11	24	\$39,700
1912-1913	16	30	54,300
1913-1914	21	37	78,700
1914-1915	21	32	61,200
1915-1916	36	63	126,800
1916-1917	42	65	149,100
1917-1918	42	64	172,000
1918-1919	47	77	238,245

Minerals, Canadian. Canada produces 90 per cent of the nickel mined in the world, a large portion of the silver and 85 per cent of the asbestos. Canada contains the largest known gold mine and possesses vast amounts of copper. Such rich deposits of sulphide-ore have been discovered that the ore is profitably hauled sixty miles for shipment by railway.

National Research Council. The Carnegie Foundation have made a grant of \$5,000,000 to the National Research Council.

Nichols Medal. The Nichols Medal of the American Chemical Society has been awarded to Dr. Irving Langmuir of Schenectady.

Nitrogen. Arnold Hoffman & Company, Providence, R. I., announces plans for building a plant to manufacture ammonia from nitrogen taken from the air.

Nitrate. The entire production of nitrates in Germany is under the control of the Stickstoff Syndikat, with headquarters at Berlin. Both the Haber and cyanamide methods are used for fixation of nitrogen. The Haber plants are extensive and are located at Merseburg and Ludwigshafen. War-time developments have made Germany entirely independent of Chile, and not only will she supply her own requirements, but proposes to export fixed nitrogen as soon as her own needs are fully covered. All questions of export and import are determined by the Stickstoff Syndikat.

Olive Oil. The total production of olives in Spain during 1919 amounted to 1,813,100 metric tons, compared with 1,403,831 tons in 1918, and 2,207,700 tons in 1917. The oil yield in 1919 amounted to 336,393 metric tons, compared with 255,202 tons in 1918, and 427,838 tons in 1917. Of the total 1919 olive crop 1,761,374 metric tons went to the mills, yielding 19.09 kilos of oil per 100 kilos of olives.

The area devoted to olive culture comprised 1,571,909 hectares (1 hectare = 2.47 acres).

Paints. Sherwin-Williams Company's sales for eight months of the company's fiscal year (1919) amounted to \$42,870,734.87, an increase of \$15,020,996.86 over the corresponding period of the previous year.

Patents. The Chemical Foundation, which secured title to the former German-owned patents, copyrights and abstracts, continued to license these patents to the consumers throughout the year. A catalogue of these patents was prepared and indexed in such a way that the American manufacturer who desired a license could obtain it with the minimum of trouble and expense. Many producers of intermediate colors and pharmaceuticals availed themselves of this opportunity during the year. In some cases considerable difficulties in working the processes described were encountered. It was believed that many of the descriptions accompanying the patents were incomplete, and in some instances this was actually the case. In many others it was found that the processes were complete but that certain fine variations in the methods of applying them would bring totally different results from those desired. Owing to the versatility and constant efforts of the American chemists, many of these difficulties were removed, and in some instances entirely new processes were developed which proved to be immensely superior to those formerly employed by the German chemists.

Petroleum. The Mexican wells now under exploitation are capable of producing 170,000 cubic meters of petroleum per day, or approximately 1,000,000 bbls.

Phenol. The United States Government sold 30,000,000 pounds of phenol, the entire surplus of the War Department, to the Monsanto Chemical Works of St. Louis.

Phosphate. The reserves of phosphate on Nauru, an island in the Pacific, indicate that 80,000,000 to 100,000,000 tons are available. This supply will meet the demands of the world for 200 years. The quality of phosphate is from 85 to 86 per cent.

Phosphate. Phosphate islands in the Pacific include: Nauru, Ocean, Mekatea, Christmas, Angaur, Surprise, Clipperton, Walpole and Malden.

Physical Laboratory. The British National Physical Laboratory, the scene of researches of which the importance to the British nation during the war cannot be overestimated, had its origin in the Kew Observatory, which was maintained by the Association from 1842 to 1872.

Picric Acid. The War Department has sold to H. C. Couch, president of the Arkansas Light & Power Co., representing a group of business men of Little Rock, Ark., the acid-manufacturing plant near Little Rock, which was constructed by the Ordnance Department during the war for the production of picric acid. The price obtained by the Government for the property was \$770,000.

Pittsburgh Station of Bureau of Mines. The new Pittsburgh Station of the Bureau of Mines was dedicated September 29, 1919.

Platinum. It is proposed that Congress shall charter a concern to be known as the United States Platinum Corporation. The operations of the company are to be confined to the public domain in Alaska.

Potash. Alsatian potash.—The Department of Overseas Trade of Great Britain is informed that the estimated output of Alsatian potash in the years 1920, 1921, and 1922 will amount to the following quantities:—1920: 1,320,000 tons, or 220,000 tons of pure potash. 1921: 2,040,000 tons, or 340,000 tons of pure potash. 1922: 2,340,000 tons, or 390,000 tons of pure potash.

Potash. During the years 1918 and 1919 only about 1100 tons of nitrate of potash was produced at Antofagasta, Chili.

Potash. The Dalen Portland cement factory has begun the manufacture of potash. This factory is located at Dalen, near Brevik, in Norway. It was established in 1916, and is capitalized at 3,200,000 crowns (\$857,600).

Potash. The Eastern Potash Corporation is building a plant at New Brunswick, N. J., with a capacity to produce 30,000 to 40,000 tons of potash annually from greensands.

Potash. The profits of the German potash industry during 1919 were 17,661,511 marks, as against 2,317,667 marks for 1918. This enables the regular pre-war dividend of 10 per cent to be again paid, as against 7 per cent in 1918. It was also proposed to pay a bonus of 200 marks per share, as against nothing in 1918.

Potash. The United States Government's kelp plant at Summerland, California, is maintained from the returns of its potash output. The four principal by-products of this plant are iodine, salt, ammonia, and bleaching carbon.

Potash Alum. What was said to be the only known potash-alum deposit occurs in commercial quantities in Esmeralda County, Nevada.

Powder Plants. The United States Government powder plant at Nashville, Tennessee, had an estimated cost of \$90,000,000. Each of its nine powder lines had a capacity of 100,000 pounds a day. The plant at Nitro, W. Va., was designed to produce 625,000 pounds of powder a day.

Pulp. The Chicago newspapers are now using 5000 spruce trees daily.

Radium. Radium minerals are usually found in places where granite forms at least part of the rock of the country. Carnotite and tyuyamunite furnish the bulk of the world's radium.

Radium. The discovery of radium is reported in the townships of Proudfoot and Butt, near Kearney, Canada, on the Grand Trunk Railway. Other valuable minerals have been found, including vanadium, molybdenum, potash feldspar, muscovite, and mica. The rock is of gneiss granite formation, with a pegmatite vein running through it. This pegmatite vein contains the valuable minerals and is found to be from 18 inches to 20 feet thick.

Recovering Copper and Steel. The European technical press estimates that over 3,000,000 tons of copper thrown from artillery in Belgium and France, and 100,000,000 tons of steel per acre, are buried in large districts where heavy bombardment occurred. It is estimated that at least one-third of this metal will be recovered.

Remington Honor Medal. The Remington Honor Medal in Pharmacy has been awarded to Dr. John Uri Lloyd, of Cincinnati.

Removal of Chemical Plants. Removal of large chemical plants on the Kanawha River, centering around South Charleston, West Virginia, has been seriously considered on account of the scarcity of natural gas.

Research Associations in Great Britain. The British Government has organized Research Associations to the number of thirteen in different industries and trades. These industries include sugar, iron, photography,

glass, rubber, scientific instruments, portland cement, shale oil, refractory materials and non-ferrous metals.

Royalties to Government Employees. Patent royalties will be allowed to government employees hereafter according to the provisions of a bill passed by the Senate.

Silk, artificial. The DuPont Fibre Silk Company of Wilmington proposes to enter into the manufacture of artificial silk.

Soap. Procter and Gamble will erect a large plant to manufacture soap near San Francisco.

St. Louis as an Iron Center. The United States government has constructed a fleet of nineteen barges and four tow-boats. This equipment has been leased by the Mississippi Valley Iron Company of St. Louis, which will use the fleet for moving coal from Illinois to St. Paul and the Northwest. On return trips the fleet will bring iron ore from mines in Minnesota.

Sugar. The American Sugar Refining Company will construct a sugar refining plant near Baltimore, at an estimated cost of \$8,000,000.

Sulphur. The Louisiana sulphur beds, containing pure sulphur deposits, are 500 feet below quicksand beds.

Sulphuric Acid. The largest sulphuric acid plant in the world is in Ducktown, Tennessee. The acid is made from smelter smoke. One thousand tons of sulphuric acid are produced a day.

Synthetic Indigo. A large development was noted during the year in the production of synthetic indigo. This product, which the Germans boasted could never be made in the United States, was produced in sufficient volume to take care of practically all the demands of domestic consumers, and at the close of the year some export business in it was reported. Vat dyes were still in the experimental stage at the close of the year. An enormous amount of time, money and energy had been expended on them, but up to the end of 1919 results on a commercial scale had not been achieved. It was believed, however, that American vat dyes would be on the market in sufficient supply to take care of the domestic consumers before the middle of 1920. One large producer had perfected eight of these shades at the close of the year, but they were not sufficiently standardized to allow of their being offered commercially. In

fact when the American dye commissioner went abroad to purchase supplies it was with the understanding that not more than a six months' supply would be purchased, as domestic vat dyes would undoubtedly be produced on a commercial scale within that time.

Synthetic Resin. The Barrett Company are producing a synthetic resin called cumar. It will have a valuable use in molded insulation work on account of its dielectric properties.

TNT. The War Department disposed of 29,000,000 pounds of TNT within eleven months after the armistice.

United Drug Co. The directors of the United Drug Company formally approved the purchase of Boots, Ltd., of England. The United Drug Company paid cash for the business and to finance the purchase a new company has been formed, known as Liggett's International, Ltd., Inc. It will be

owned by the United Drug Company. The Boots' business will take over the English stores already owned by the United Drug Company, the United Drug Company, Ltd., of Canada, and the Liggett's Ltd., of Canada.

Western Chemical Manufacturing Co. The General Chemical Company have purchased a controlling interest in the Denver works of the Western Chemical Manufacturing Company. The physical valuation of the property is about \$2,500,000.

"Wet Process" Mill. The Olympic Portland Cement Company, Ltd., Bellingham, Washington, have built the first "wet process" mill in this country. The present capacity is 2000 barrels a day.

Zinc Oxide and Lithophone. The New Jersey Zinc Company are constructing additional zinc oxide and lithophone plants in Pennsylvania and Colorado, to meet the growing demand for these products.

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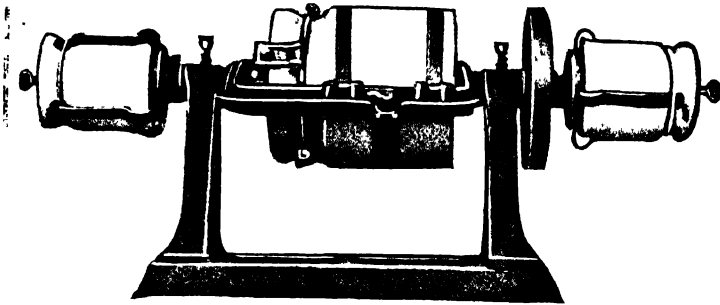
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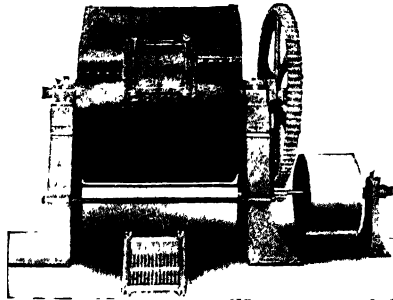
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Gate

Also check valves of the vertical, horizontal and angle type.

Valve seats are made extra large to insure long life, brass valve stems are covered with special hard "Chemetal" stunting boxes are made extra large and also lined with lead. All valves are of the rising stem type, but the spindle will only move up and down but not turn. Stunting boxes may be replaced with valves under pressure by turning valves wide open.

Flanges are faced and drilled A. S. M. E. standard and composition. Flanges with bolts will be furnished upon request. All 1", 1½" and 2" valves are of the "Clip" type, larger valves have yokes bolted to the bodies with four or more special Tee head bolts. Valves are built for a standard pressure of 50 lbs. and are carefully inspected and tested before shipment.

Special valves made to order.

"CHEMETAL" FITTINGS:

"Chemetal" fittings for acid chambers are of improved design and heavy construction. Spray nozzles with special locknut and porcelain nozzle.

Bronze strainers.

Chemetal drain plugs.

"CHEMETAL" CASTINGS:

"Chemetal" castings of any description are made to order and properly machined and finished in accordance with customers' drawings and specifications.

"CHEMETAL" CENTRIFUGAL PUMPS:

"Chemetal" Centrifugal Pumps are built in three sizes with capacities of from 30 to 300 gallons per minute.

The casing is built of a special lead alloy properly re-inforced by heavy ribs. Pumps have large centre suction and discharge opening may be turned any direction to suit pipe connections.

The impeller is of the enclosed type made of "Chemetal" with bronze core, all surfaces hand finished to reduce friction losses; impeller and shaft carefully balanced to insure smooth running. Impeller and casing fitted with suitable labyrinth rings to prevent leakage of liquid from discharge to suction.

Stunting boxes are made extra long and can be furnished with watershed and drip gland.

Shaft of high grade steel and large diameter, one end screwed into the bronze core and protected by heavy "Chemetal" sleeve; the other end held rigidly by two outside bearings of the ring oiling type with thrust collar and wiper.

Bed plate and stands of cast iron, properly machined and fitted, for belt drive or direct connected motor. Flexible couplings furnished for all motor driven pumps; suitable tight and loose pulleys for belt drive.

All pumps are carefully assembled and tested in our testing plant.

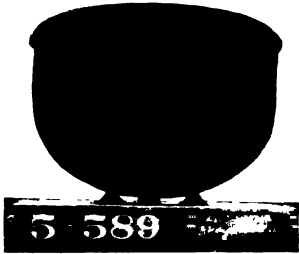
FULLER-LEHIGH COMPANY

FULLERTON, PA.

New York Office: 50 Church St.

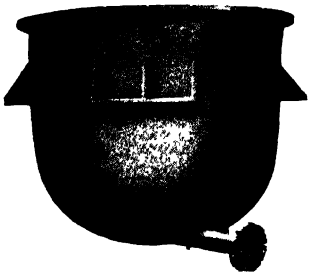
PRODUCTS: Chemical and Acid Heat Resisting Castings for all purposes; also special castings of all descriptions made according to specifications, up to 35 tons in weight; Nitric Acid Retorts, Caustic Soda Pots, Sulphuric Acid Concentrating Pans, Muriatic Decomposing Pots, Acid Eggs, Manheim Furnace Castings, Nitre Pots, Desilverizing Kettles, Matte Pans, Lead Refining Kettles, Anode Moulds, Slag Tapping Blocks, Cylinders, Vacuum Pans, Condensers, Pump Casings, Generator and Motor Castings, Cinder Ladles, etc.

CAUSTIC POTS:



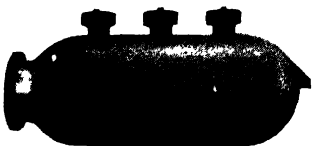
The majority of the caustic soda manufacturers of the country use "Fuller-Lehigh" caustic pots. Comparative tests with those of other manufacturers invariably leads to the adoption of the "Fuller-Lehigh". These kettles can be made of any size or preferred shape. Testimonials furnished on request.

NITRIC ACID RETORTS:



The mixture used for these vessels is the result of experiments conducted recently with one of the largest chemical companies of the world. No retorts are removed from mold until cold. They can be furnished either of the vertical or horizontal type.

ACID EGGS:



Made of special iron which experience has proven unexcelled for durability in this service. Tested in our shop to 300 lbs. pressure.

SULPHURIC ACID CONCENTRATING PANS:

A yield of 400% and more beyond the general average obtained from other makes is the usual result of comparative tests in actual operation. Metal used in castings for this service is double the strength of best grades of cast iron. Tendency toward cracking is therefore eliminated to a minimum. In density it is like chilled iron they are practically "fool-proof." A large assortment of pattern equipment insures prompt execution of orders. The few renewals required where "Fuller-Lehigh" pans are used insure large operating economy.



MANHEIM FURNACE CASTINGS:

Special foundry process, demonstrated mixtures, and ability to cast and machine extremely large sizes, result in benefits which the chemical trade is constantly finding to its advantage. Our records have not been approached by any manufacturer.



PANS FOR RECOVERY OF ACID FROM SLUDGE:

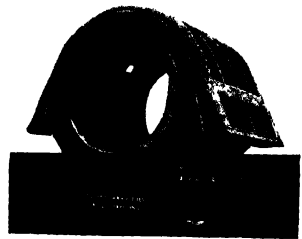
The largest oil companies in the world use "Fuller-Lehigh" products for this service.

Being the first company to make such pans, we are able to give users the benefit of long experience as regards both designs and mixtures. Repeat orders and long-term contracts from large users are testimony to wonderful results constantly being obtained.



SPECIAL CASTINGS:

Kettles and castings of any description, size or shape, are made according to customers' specifications, usually from skeleton patterns or sweeps. Estimates promptly and cheerfully furnished.



LOCATION:

Situated in the heart of the non-producing section of the Lehigh Valley and in close proximity to coal mines and sand pits, gives this company a commanding position in the making of its products.

MACHINE SHOP FACILITIES:

These include boring mills that will machine castings up to 17' 5" diameter x 10' high, planer 6' x 22', radial drills, vertical and horizontal facing machines, large lathes, etc.

FULLER-LEHIGH COMPANY

FULLERTON, PA.

UNITED LINED TUBE & VALVE COMPANY

BOSTON, MASS.

GENERAL SELLING AGENTS

NEW YORK, N. Y., United Lead Co., 111 Broadway

CHICAGO, ILL., Raymond Lead Co.

ST. LOUIS, MO., Hoyt Metal Co.

CLEVELAND, OHIO, Gibson-Price Co.

BALTIMORE, MD., James Robertson Lead Co.
PHILADELPHIA, PA., United Lead Company of Pennsylvania (Tatham & Bros. Works).

BOSTON, MASS., Chadwick-Boston Lead Co.
TORONTO, CANADA, Hoyt Metal Co.

"UNITED" LINED PRODUCTS

Lead or Tin Lined Iron, Steel, Brass or Copper Pipe

Brass or Copper Lined Iron or Steel Pipe

Lead or Tin Lined Iron or Brass Fittings

Lead Lined Soil Pipe and Fittings

Lead or Tin Covered Pipe and Fittings

Coils—Covered or Lined

Lead Covered Pipe

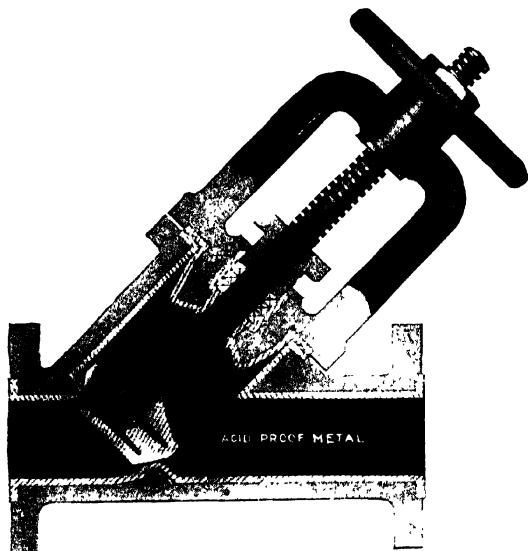
Acid Drums and Tanks

Acid Valves

Special Acid Resisting Apparatus

Hard Lead Centrifugal Acid Pumps

Lead Coated Steel Sheets



SPECIAL "UNITED" ACID VALVES

Our acid-resisting valves are heavily lined throughout with a special acid-resisting alloy, and the seats made of a composition which, being harder than lead, is better adapted to withstand the grinding or wear likely to occur at this point.

These valves being constructed of iron and brass, same as ordinary valves, except as regards the interior, make the strongest acid valves on the market. They are not liable to be broken in transportation, during installation or in actual use, as is the case with valves made wholly of lead composition metal, which is brittle and easily broken, particularly at the flanges.

The flanges on our valves are extra strong and will last indefinitely.

"UNITED" LINED PIPE

"United" Pipe, as its name implies, is a tube of either lead, pure block tin, brass or copper, thoroughly and inseparably united throughout its entire length to an outer tube of wrought iron, steel, etc.

The lining is made with perfectly smooth interior surface and of any desired thickness. This pipe can be furnished with flanges and flanged fittings, as shown by illustration, or threaded and with screw fittings. Flanged pipe and fittings are recommended for installation in acid and chemical plants.

HARD LEAD CENTRIFUGAL ACID PUMPS

For acid and corrosive liquids. Adapted for connecting pipes 1" to 4" diameter. The highest grade acid pumps on the market. Designed for operation by pulleys or direct motor connections. Catalog and prices upon application.

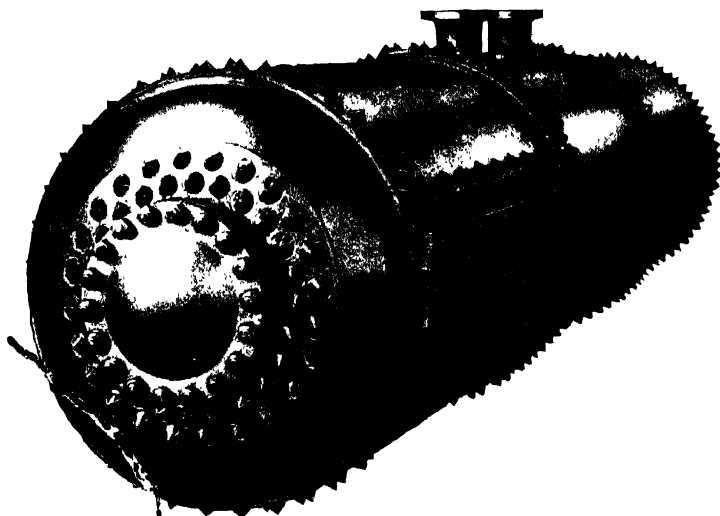
We guarantee all of our products

Complete Catalog of "United" Lined Products mailed on request

Pressure and Storage Tanks for Chemical and Allied Industries



STANDARD GASOLINE AND OIL STORAGE TANK
Send for Price List No. 25



HEAVY DUTY HIGH PRESSURE TANK
500 Lbs. Working Pressure

We make a specialty of building Steel Tanks of every description, including Mixing Tanks, Steam Jacketed Tanks, Condensers, Evaporators, etc.

The Biggs Boiler Works Company
Williams & Bank Sts.
Akron, Ohio

L. O. KOVEN & BROTHER

NEW YORK WAREROOMS

50 Cliff St., New York City

OFFICE: 154 Ogden Avenue, Jersey City, N. J.

WORKS: Jersey City, N. J.

Engineers, Manufacturers, Machinists, and Designers. We Fabricate Plate Steel, Copper, Brass, Tin, Aluminum, etc., of Any Shape. Designers and makers of Special Apparatus for Manufacturing Industries.

A Partial List of What We Make

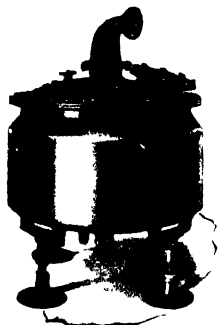
AIR WASHERS
ALCOHOL RECOVERY AND PURIFYING APPARATUS
ALCOHOL STILLERS
AUTOClaves
BOTTLE STERILIZERS
BRILLIANT RACKS
CANS
CAN WASHERS
CANNED GOODS STERILIZERS
CHILL VATS
CHINA KILNS
COIL BOILERS
CONDENSED MILK COOLERS
COPPER LINED STEEL TANKS
CRISTOTING TANKS
DIGESTERS
DRINKING GLASS STERILIZERS
DRYING APPARATUS
EXHAUST MANIFOLDS
EXTRACTORS
FILTER PRESSES
FRUIT WASHERS
GALVANIZED TANKS
GASOLINE TANKS
GASOMETERS
GLASS KILNS
GLASS STERILIZERS
GLUE DISSOLVERS
GUM WASHERS
HAM BOILERS
HOT WATER TANKS
HUMIDIFIERS
JACKETED TANKS

KILNS
LEAD LINED TANKS
MALT TANKS
METAL MELTING FURNACES
MILK MACHINERY
MIXERS
MUTTERS
OIL FILTERS
OIL WASHERS
OYSTER WASHERS
PASTEURIZERS
PERCOLATORS
PILE RACKS
PIPE RIVETED
PLATING TANKS
RUBBER LINED TANKS
SAND BLAST TANKS
SHIPPING DRUMS
SPRAYERS FRUIT TREES
SPRAYERS PAINT
SOLVENT RECOVERY STILLERS
STEAM KETTLES
STERILIZERS
STILLS
SMOKE STACKS
TANKS (AIR GAS OIL WATER)
TUMBLERS
VACUUM PANS
VARNISH TANKS
VEGETABLE WASHERS
VULCANIZERS
WASHERS FOR CANNERS
WATER STILLERS

We are prepared to do plate work of every description for Ships, Mills, Mines, Factories, Plantations, Chemical Works, Paint Works, Paper Mills, Abattoirs, Fertilizer Plants, Water Works, Government Work, Sewage Systems, etc. We also make and design Special Apparatus and Machinery to meet the progress in all lines of business. We have the facilities for improving yours.

PFAUDLER

Glass Enameled Steel



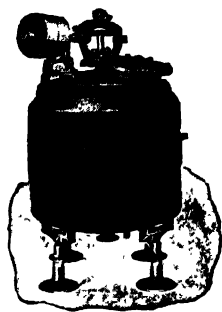
PFAUDLER JACKETED STILL

Glass Lined Steel Tapering Gooseneck. Jacket and enameled body of still are welded into one piece, top head bolted on and fitted with sight glasses, manhole cover secured by either swing bolts or through bolts. Tapering, enameled gooseneck bolted to welded-on flanged nozzle in head. Flanged or threaded enameled outlet through stuffing box in bottom of jacket. Various sizes and capacities.



PFAUDLER UTILITY POT

Glass Lined Steel Capacity, 26 gallons. For the small-scale manufacture of Chemicals and Pharmaceuticals and for laboratory use. Send for folder "What the Chief Chemist Said," giving specifications and showing special condensing, agitating and lifting and tilting mechanisms for use in conjunction with this equipment.



PFAUDLER SINGLE PIECE MIXER

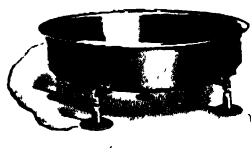
Glass Lined Steel The body of this tank is a single piece of Open Hearth Sheet Steel. The entire interior as well as the agitator is enameled with Pfaudler Glass Enamel. Capacity of tank shown is 200 gallons, and is 42" x 36" inside. It may, however, be had in many different sizes and capacities up to 800 gallons. Prices on application.



PFAUDLER JACKETED EVAPORATING KETTLE

Glass Lined Steel Welded into one piece of open hearth steel these kettles combine great strength with rapid conductivity of heat. Where very high temperatures are required, an oil bath may be employed, heated either by direct flame or in a separate heater. Furnished either with or without outlet. Various sizes and capacities.

CHEMICAL
BULLETIN C-5
SENT ON REQUEST



PFAUDLER CRYSTALLIZING PAN

Glass Lined Steel The glossy lining of Resistive Glass Enamel minimizes the chances of adherence of solids, and its non-metallic character eliminate the possibility of contamination from the pan. Various sizes and capacities.

THE PFAUDLER CO.
ROCHESTER, N. Y.

NEW YORK
110 West 10th St.

CHICAGO
111 W. Washington St.
ST. LOUIS
110 Pierce Bldg.

SAN FRANCISCO
512 Sharon Building

Kindly mention the Directory in answering advertisements

ABBÉ PULVERIZING MACHINERY

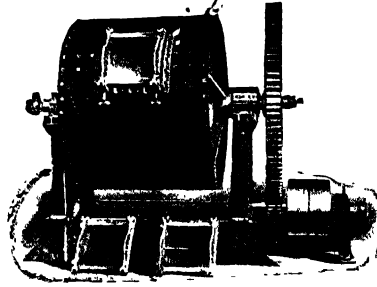
Laboratory
Mills

Pebble Mills

Ball Mills

Disintegrators

Rotary
Cutters



ABBÉ PEBBLE MILL PATENTED

Vacuum
Pumps

Acid
Pumps

Pressure
Blowers

Filter
Presses

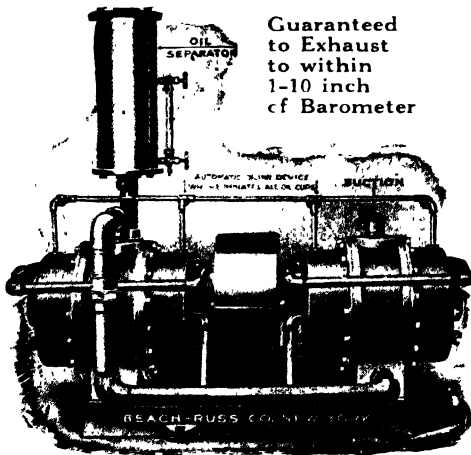
Our Testing Laboratory is at Your Service Without Cost
Over 100 Machines in Stock

Our Pumps received award medal of honor, gold medal at
Panama-Pacific International Exposition

ABBÉ ENGINEERING COMPANY

St. Paul Building

New York



Guaranteed
to Exhaust
to within
1-10 inch
cf Barometer

Inquire about our special motor driven
LABORATORY HIGH VACUUM PUMP

Vacuum Pumps Pressure Blowers

HIGH VOLUME
HEAVY DUTY

*Silent as a motor---
Simple as a wheel*

Fourteen Sizes, from Three
3/4 to One Thousand (1000)
feet a Minute

ACID PUMPS
FILTER PRESSES
PULVERIZING
MACHINERY

BEACH-RUSS COMPANY

ST. PAUL BUILDING

Phone: Cortlandt 55

NEW YORK C

Kindly mention the Directory in answering advertisements

TANKS CASTINGS

Special Machinery Built to Order.
Digesters

COMPLETE GAS PLANTS

OF ANY SIZE OR PROCESS

Benzol recovery plants,

Steel bins,

GAS HOLDERS,

Scrubbers, Condensers,

Gas Purifiers,

Ammonia Stills,

Tar Stills,

GAS VALVES,

Tar Extractors,

"Blue Water gas" plants.

THE WESTERN GAS CONSTRUCTION CO.

FORT WAYNE, INDIANA

Kindly mention the Directory in answering advertisements

SWENSON EVAPORATOR CO.

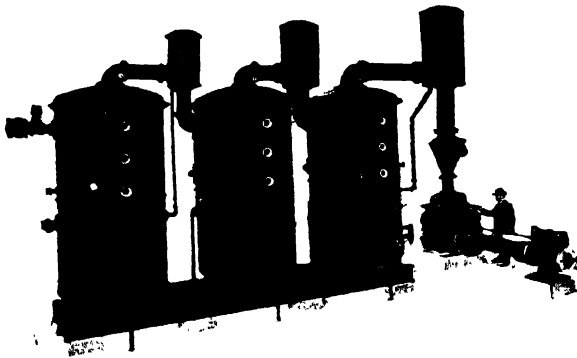
Cable Address: "Evaporator Chicago"

945 Monadnock Block - - - CHICAGO

PRODUCTS: Evaporators, Single and Multiple Effects; Vacuum Pans; Leaching Batteries; Beet Sugar Machinery; Pulp Mill Machinery, Special Chemical and Waste Product Machinery.

SUBSTANCES HANDLED: Any liquid condensed in commercial quantities.

SIZES OF EVAPORATORS: Sizes regularly range from 100 to 10,000 gallons per hour evaporation.



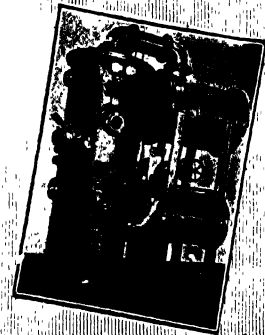
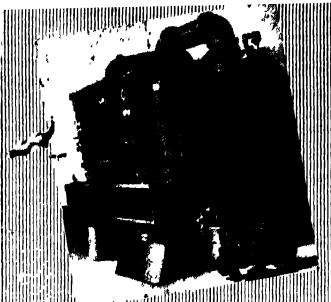
TYPES OF EVAPORATORS: We manufacture five standard types of evaporators; however, when our regular types do not meet the conditions efficiently, our Engineers evolve special types or combinations of types to produce the desired results. Our Catalogue on Evaporators deals with Type in detail.

SWENSON SERVICE: Economy, durability, accessibility, low repairs, easy operation and maximum simplicity in design, consistent with the attaining of these results, characterize Swenson Service. We can refer to more than 1000 evaporator installations—over half of which have been repeat orders. More than a quarter of a century of experience is at your command.

SPECIALISTS: Specialists in processes utilizing waste solutions or new chemical products.

CATALOGUE: Our catalogue contains valuable information and tables as well as descriptions of our machines.

Kindly mention the Directory in answering advertisements



Built for Long Life,
Hard Service, and No
Worry to the Owner

ZAREMBA Evaporators are
in use throughout the U. S.
and in all quarters of the Globe

***"By their works you shall
know them"***

Look up our record and re-
member that what we have
done for others we can do for
you.

The Evaporators illustrated, reading
from top to bottom, are the *Zarembo*
Patent Evaporator for the general
run of work *Crystallizing Evapor-*
ator for crystallizing and precipitating
solutions and *Rapid Circulator* for
flaming and delicate liquors.

ZAREMBA COMPANY

513 NIAGARA LIFE BLDG.
BUFFALO, U. S. A.

EVAPORATOR
— OF —
ZAREMBA
A TYPE FOR
INSTALLATIONS
MERIT
ZAREMBA
EVERY PURPOSE

Kindly mention the Directory in answering advertisements



DURIRON



The Universal Acid Resistant

DURIRON is a cast metal, produced only by this Company, that successfully resists most acids used commercially.

It is of homogeneous structure—equally resistant outside and inside—and possesses virtually the acid resisting properties of glass, with the great added value of strength.

DURIRON is practically unaffected by Sulphuric, Nitric, or Acetic acids of any strength or temperature, and we have extensive data of its resistance to other corrosives that may be had on application.

Send for Duriron sample

DURIRON

Give it "the acid test" in Your acid

From DURIRON we produce a Standard Line of Pipe and Fittings; Centrifugal and Reciprocating Pumps; Ejectors; Exhaust Fans; Tanks; Kettles (from 6 to 1000 gallons capacity); Stirrers; Cocks; Valves; Cascade Basins; Hough Nitric Acid Condensers; Laboratory Utensils, etc., etc.

Special Castings are constantly being produced to meet individual requirements. We maintain an Engineering Staff to coöperate in the design and installation of chemical apparatus and equipment.

Wherever corrosives are handled, DURIRON makes installation permanent.

Duriron Castings Company, Dayton Ohio

CHICAGO
Harris Trust Bldg.

NEW YORK
90 West St.

SAN FRANCISCO
Monadnock Bldg.

Sturtevant Machinery

For the

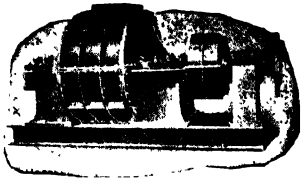
Chemical Industries

**CRUSHING, GRINDING, PULVERIZING,
SCREENING, SAMPLING, SACKING,
WEIGHING AND MIXING MACHINERY,
ELEVATORS, CONVEYORS,
CHUTES, SPOUTS**

Jaw Crushers	of cast non-ferrous steel and plate-steel construction for coarse, intermediate and fine rock and ore crushing	Catalogue No. 62
"Open Door" Rotary Crushers	for soft and moderately hard materials such as gypsum, lime, phosphate-shale, etc. talc, coke, caustic, etc. Crush coarse or fine	No. 63
Balanced Crushing Rolls	for coarse or fine reduction. Built in many sizes, for hard or soft substance and end adjustments	No. 65
Hammer-Bar Pulverizers	for pulverizing soft and moderately hard substances such as limestone, coal, shale, clay, chemical, etc. Especially suited for grinding limestone for application to the soil	No. 84
Hinged Hammer Pulverizers	for pulverizing fertilizer, peat, shells, clay, glue, rosin, or other soft or fibrous materials	No. 86
"Open Door" Ring-Roll Mills	The "Standard" pulverizers for hard or moderately hard substances. Range of output, from 10 to 100 mesh	No. 79
Emery Mills	for the fine grinding of talc, gypsum, lime, shale, clay, etc., built in both vertical and horizontal models	No. 61
Sturtevant Newaygo Screens	Universally used on a great variety of materials—screening many on which other operators have failed	No. 77
Fertilizer Mixers	for mixing complete fertilizers. The only exclusively designed mixer which produces a perfectly mixed output	No. 80
Fertilizing Mixing Units	complete, ready-to-set-up, including elevators, chutes, spouts, valves, bins, mixer, pulverizer, scale, etc. All-steel. Dustless and Fine Proof	No. 86
Automatic Scales—Weighing and Sacking Machines	for Fertilizer, Grain, Feed, Coffee, Rice, Sugar, etc. Built in several styles. Range of work, 1 to 200 lb.	No. 81
Coal Crusher and Automatic Samplers	for crushing coal to 1/4 inch, and automatically removing from 5 to 15 per cent. of the sample at the time. Used by large purchasers of coal on the B. & O. basis	No. 85
Laboratory Crushing, Grinding and Screening Machinery	for research, school, and laboratory use. Large range of output, accurate products and quick accessibility for cleaning and adjustments	No. 67
Elevators, Conveyors, Chutes, Spouts, etc.	all-steel, dustless, strong, durable, for all Sturtevant Machinery and Mixing Units, also built to order after user's designs	No. 61

STURTEVANT MILL CO., BOSTON, MASS.

Kindly mention the Directory in answering advertisements



HIGH PRESSURE GAS PUMP

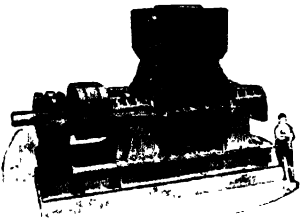
Sizes .1 to 400 cu. ft. per revolution.

Pressures 4 ozs. to 10 pounds.

ROTARY POSITIVE PRESSURE BLOWERS

For handling air under pressure or vacuum as in flotation, smelter, foundry and metallurgical processes generally.

Also used for pressure and vacuum cleaning, pneumatic transmission of granular materials, raw water ice making and many other purposes.



CYCLOIDAL ROTARY PUMP

All sizes up to 1900 gallons per revolution.

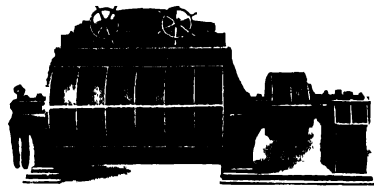
GAS PUMPS, BOOSTERS, EXHAUSTERS,

FOR HANDLING

nearly all gases including by-product, illuminating, natural and strictly chemical gases.

Will operate on pressure or vacuum.

Can be furnished with belt, engine or motor.



HEAVY DUTY SMELTER BLOWER

Capacities .025 to 400 cu. ft. per revolution

Pressures 4 ozs. to 10 pounds.

VALVELESS ROTARY PUMPS

for handling nearly all liquids including water. Can be furnished in all bronze construction where necessary.

Have many in service in the by-product plants and chemical works.

We Also Make the Following:

SPECIAL OIL PUMPS

FLEXIBLE COUPLINGS

PRESSURE REGULATORS

JET CONDENSERS

GRAIN AND ASH FEEDERS

BLAST VALVES

GAS VALVES

VACUUM CLEANERS

The Connersville Blower Company

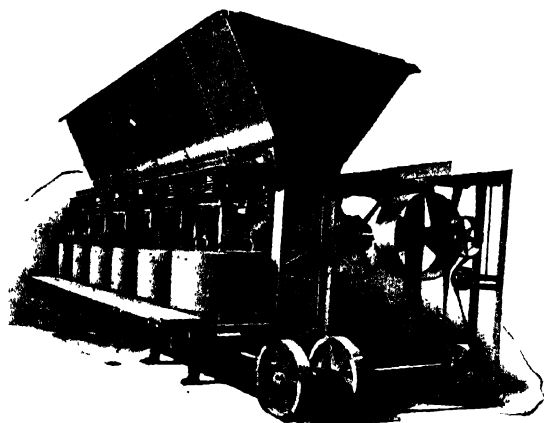
— Connersville Indiana U.S.A. —

Chicago, Monadnock Bldg. New York, 114 Liberty St.

MACKINTOSH

BALL-BEARING CENTRIFUGALS

For Big Production at Small Expense

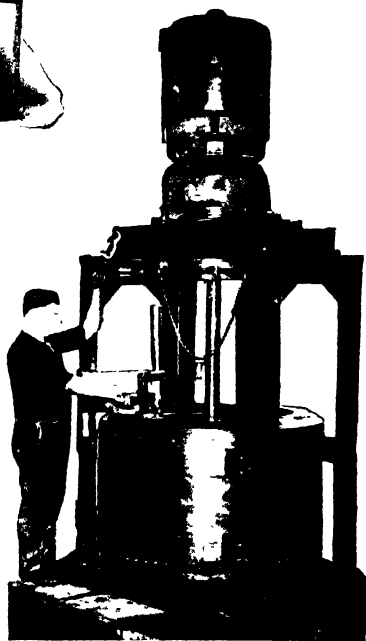


BELT-DRIVEN CENTRIFUGAL

Furnished with Hoppers and Valves for charging Centrifugals, Mackintosh Unloaders, Vibratory and Scroll Conveyers, Elevators, etc.

Products of 57 years
of Centrifugal
Experience

Mackintosh Ball-Bearing Centrifugals enjoy wide popularity because of their distinctive Machines, Brakes, Friction Pulleys, Belt Tighteners, etc. Whether Belt, Electric or Hydraulic driven, they possess great durability, large capacity, high speed, and low operating and maintenance cost.



ELECTRIC CENTRIFUGAL

S. S. Hepworth Company

112 Rector Street

New York

Kindly mention the Directory in answering advertisements

WOODEN TANKS

FOR

ANY
SHAPE

EVERY PURPOSE

ANY
SIZE

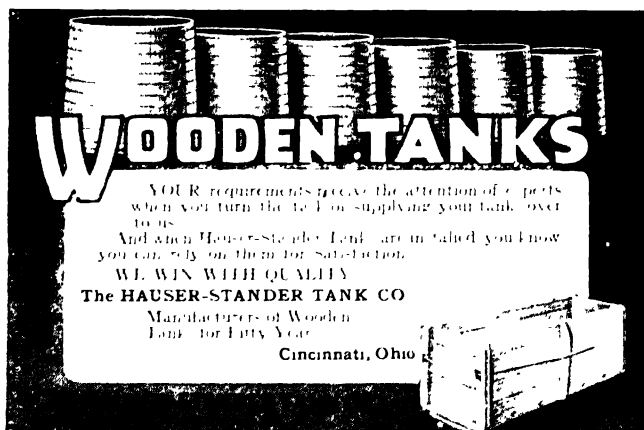
LEAD LINED OR PLAIN

SPECIAL Wooden Tanks Constructed from Genuine Louisiana Red Cypress, Long Leaf Yellow Pine, Oregon Fir, Redwood, Oak or Maple for Chemical Manufacturers, Acid, Dye and Color Works, Photographers, Film Manufacturers, Electrotypers, Galvanizers, Metallurgical Mills, Foundries, Textile Mills, Tanneries, etc.

Every Tank Built to Meet Your Requirements

The lumber is thoroughly air seasoned in our yards and labor trained to make each tank as specified. The pressures of the various sized tanks are correctly determined and by proper rodding and bracing, or in the case of round tanks, hooping, the HAUSER-STANDER WOODEN TANKS are guaranteed against bulging or leaking. Rods of brass, copper, bronze, galvanized or lead covered, supplied if specified.

Special Tanks Are Our Hobby



WOODEN TANKS

YOUR requirements receive the attention of experts when you turn the job over to us.

And when Hauser-Stander Tanks are installed you know you can rely on them for satisfaction.

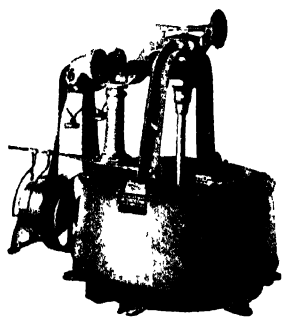
WE WIN WITH QUALITY

The HAUSER-STANDER TANK CO
Manufacturers of Wooden
Tanks for Fifty Years
Cincinnati, Ohio

Kindly mention the Directory in answering advertisements

TOLHURST CENTRIFUGALS

Standard Stock Sizes and Types



Self-Balancing Type

"Center-Slung" Open Top Centrifugal

"Suspended" Centrifugals

"Solid Curb" Centrifugals

"Nitrating" Centrifugals

"Dehydrating" Centrifugals

"Finishing" Centrifugals

"Acid" Wringers

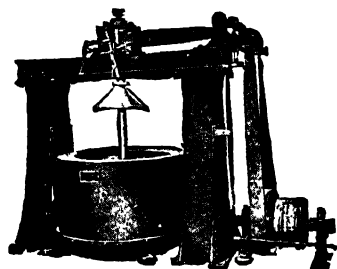
For Crystals, Fibers, Sluges, Fabrics,
etc.

WITH OR WITHOUT BOTTOM DISCHARGE

All Tolhurst Centrifugals are equipped with patent adjustable idlers permitting engine, motor or counter-shaft drive from above or below.

The Tolhurst Machine Works, established in 1852 at Troy, N. Y., have specialized in the design and construction of centrifugals since 1875.

The experience and knowledge gained in this long period of specialization enable us to produce the most efficient, durable and approved types of centrifugals.



Suspended Centrifugal

**We will be pleased to send our Catalogue "CD"
or have a representative call on request**

TOLHURST MACHINE WORKS

Established 1852

TROY, N. Y.

NEW YORK OFFICE, 111 Broadway

WESTERN REP.

John S. Gage
Hartford Bldg.
Chicago, Ill.

CANADIAN REP.

W. J. Westaway Co.
Main and McNab Streets
Hamilton, Ont.
400 McGill Bldg.
Montreal

SOUTHERN REP.

Fred H. White
Realty Bldg.
Charlotte, N. C.

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Complete Fertilizer Plants OF ALL KINDS

Designed and Constructed for the Manufacture of

ACID PHOSPHATE
AMMONIUM PHOSPHATE
DOUBLE SUPER PHOSPHATE, Etc.

ENGINEERS AND CONTRACTORS

For the Erection of Complete Plants for the Manufacture of

SULPHURIC ACID
NITRIC ACID
PHOSPHORIC ACID
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Laboratory and Outside Research

Consultations

Efficiency Engineering

CHEMICAL CONSTRUCTION COMPANY

Main Office: Charlotte, N. C.

New York Office: 30 East 42nd St.

STEEL TANKS

Of All Descriptions

Black, galvanized, riveted or welded, cylindrical or rectangular. For all pressures whether air or water.

A specialty is made of blue-print work. Our quotation to you is based on actual past performances--no guess work. We are the **LARGEST TANK MANUFACTURERS IN NEW ENGLAND**

Riverside Boiler Works, Inc.

Cambridge

Massachusetts

Kelly Filters

(PATENTED)

All Patents Owned by United Filters Corporation, 65 Broadway, New York, N. Y.

TABLE OF SPECIFICATIONS

Type of Press	30	150	250	450	850	900*	1300*
Floor Space Occupied	2x6 ft	4x14 ft.	5x21 ft.	6x23 ft.	7x34 ft.	6x38 ft.	7x38 ft.
Size of Press Shell	20x36 inches	30x72 inches	40x108 inches	48x120 inches	60x168 inches	48x120† inches	60x108† inches
Capacity Cu. Ft. of Shell Gallons	5 40	32 240	75 560	120 900	275 2050	120† 900†	177† 1325†
Number of Leaves	4-5	4-9	6-8	6-10	8-12	6-10†	6-12†
Filter Area Square Feet	21-30	60-130	180-250	260-450	690-1050	520-900	600-1300
Weight of cake per cycle Cake 1½ 100 lbs. per cubic foot	200	1000	2000	5000	12000	12000	15000
Average Cake Tonnage per 24 hrs.		5-10	20-40	50-100	150-250	200-500	200-800
Weight of Press, lbs.	640	3500	6540	11000	19000	21000	34000

* Twin Units † One Side Only.

Average capacities are approximate and vary with physical characteristics of the solids to be filtered.

Bring your filtration troubles to us. Our engineers are at your service at any time.

EMIL E. LUNGWITZ

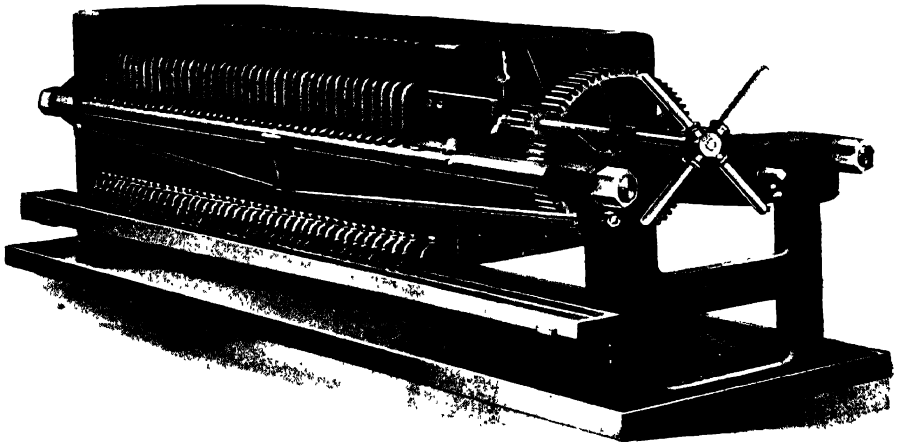
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GENERAL AND EXCLUSIVE FOR ALL INDUSTRIES
WITH CERTAIN EXCEPTIONS, IN THE
ENTIRE UNITED STATES EAST
OF COLORADO

90, WEST STREET, NEW YORK, N. Y.

Chicago Office: 11 East Jackson Boulevard

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36 INCH SPERRY FILTER PRESS

SELECT A

SPERRY FILTER PRESS

***And You Will Make
No Mistake***

Recommended by Prominent Engineers

Make Use of Our Filtration Laboratory

SEND FOR CATALOG

**D. R. SPERRY & CO.
BATAVIA, ILLINOIS**

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Filter Cloth

Filter Cloth to fulfill exactly the requirements of any industry can be selected from among the Mt. Vernon-Woodberry brands. These Filter Cloths are now employed in the processes for:

Alkali	Clay	Oils
Beet Sugar	Dyestuffs	Paints and Pigments
Borax	Fruit Juices	Paraffine
Cane Sugar	Gun-cotton	Starch
Chemicals	Metallurgical Products	Varnish
Cider		Whiting

From an extremely fine, closely woven fabric for fine filtering processes, Mt. Vernon-Woodberry brands range to the coarse, less closely woven cloths suited to refining that is not of a high grade. Any Filter Cloth, if the proper width is not in stock, will be made up in whatever width the customer requires for his particular press; or, if no one of the standard fabrics meets perfectly his special requirements, the mills will be not only willing but anxious to experiment with new and additional constructions that will ensure absolutely satisfactory results. Packed in rolls of about 100 yards.

Our great production facilities ensure prompt deliveries, even of special orders. Write for samples and full information relating to your particular requirements.

TURNER, HALSEY CO.

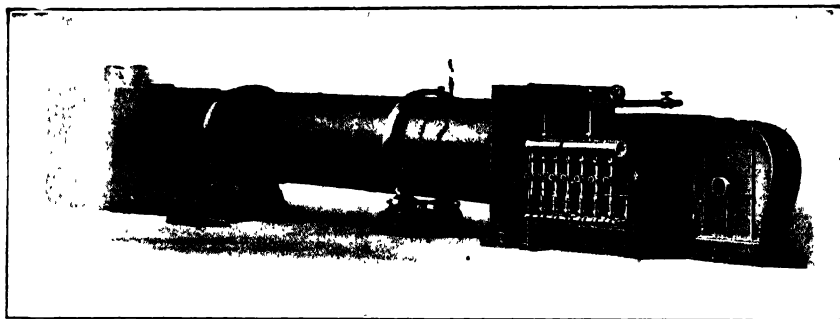
62 Leonard St., New York

BOSTON CHICAGO ST. LOUIS NEW ORLEANS SAN FRANCISCO
BALTIMORE PHILADELPHIA

Sales Agent for

MT. VERNON-WOODBERRY MILLS, Inc.

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Steam Heated Air Dryers

FOR

Sulphate of Ammonia from by-product coke plants,
and similar materials.

Also Direct Heat Dryers for By-Products, etc.

AMERICAN PROCESS CO., - 68 William St., N. Y.



**Chain
Doors
on
Furnaces**

FOR CHEMICAL, METAL OR GLASS FURNACES

The freely hanging strands of chain permit clear view of interior

"Keep Heat In and Cold Out"

No interference with handling of charge. Protect operators of
electric and other furnaces from intense heat and glare

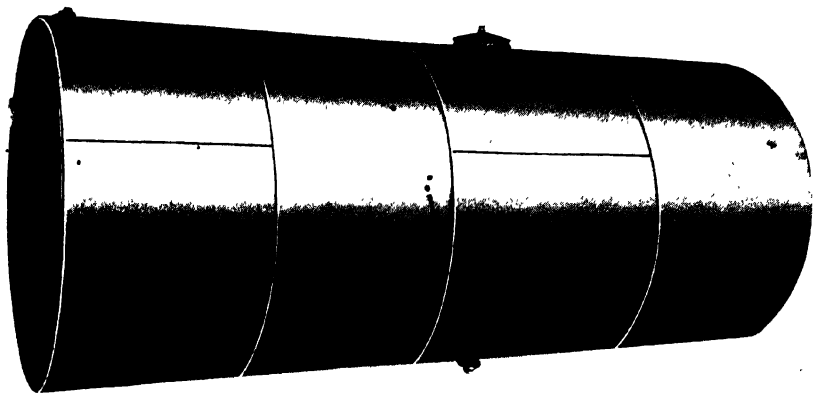
SAVE HEAT, TIME, LABOR, EYES

WRITE FOR CIRCULAR "D"

E. J. CODD COMPANY,

Baltimore, Md., U. S.

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**Riveted or Welded
TANKS----STILLS----AGITATORS**

Anything in Steel Construction

**Fabricated Steel Products Corporation
Leetonia, Ohio**

FILTER PAPERS

OF EVERY DESCRIPTION

For Manufacturing and Laboratory Purposes

Write for Information and Samples (stating requirements) to

H. REEVE ANGEL & CO.

Incorporated

7-11 Spruce Street, NEW YORK CITY

We can supply the Metallurgical Chemist and Chemical Engineer with the following graphite productions:

Bricks
Retorts
Lacings
Muffles
Nozzles

Dippers
Stoppers
Stirrer
Skimmers
Phosphorizers

Spelter Bowls
Pyrometer Shields
also Cupels
Assay Sand Crucibles
and Scorifiers

The Dixon name, the Dixon standard of quality and the Dixon experience of 90 years backs every one of these products. Send for booklet 9AY.

Made in JERSEY CITY, by the

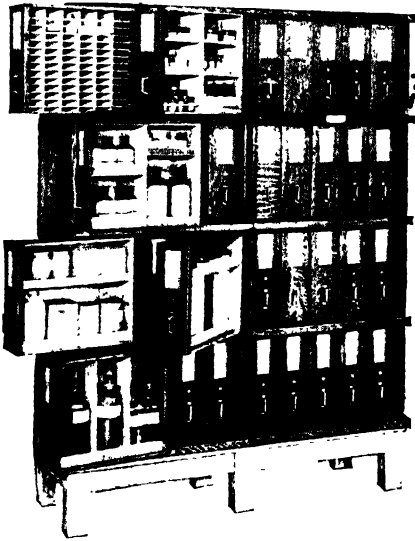
JOSEPH DIXON CRUCIBLE COMPANY

ESTABLISHED 1827



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Just What You Need in the Lab



Notice how drawers turn to left when open

Files Chemicals, Reagents, Samples
and Specimens.

**SCHWARTZ
SECTIONAL
SYSTEM**

Keeps stock under ideal conditions, free from
dust and light.

Files unlimited number of articles in limited
space.

Saves many unnecessary steps.

Prevents duplicating articles.

Puts any item instantly at finger tips.

Adopted by leading universities, largest in-
dustrial laboratories and U. S. Government,
including Bureau of Chemistry.

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Patented January 11, 1910

Schwartz Sectional System

INDIANAPOLIS, U. S. A.

THE C. F. PEASE COMPANY

Blue Printing Machinery and Drafting Room Supplies

219 West Institute Place

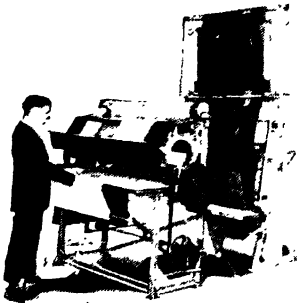
CHICAGO, ILL.

We are the largest manufacturers of Blue Printing Machinery in the world.

We make both the Peerless Continuous Equipments and the Pease Vertical Machines and keep in
stock everything for Blue Printing.

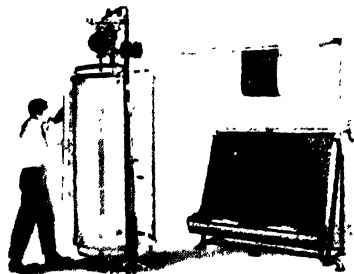
We also carry a most complete line of Drafting Room Furniture, Drawing Materials, Draftsman and
Field Supplies, Drawing and Surveying Instruments.

Write for new general Catalog B 40.



PEERLESS EQUIPMENT

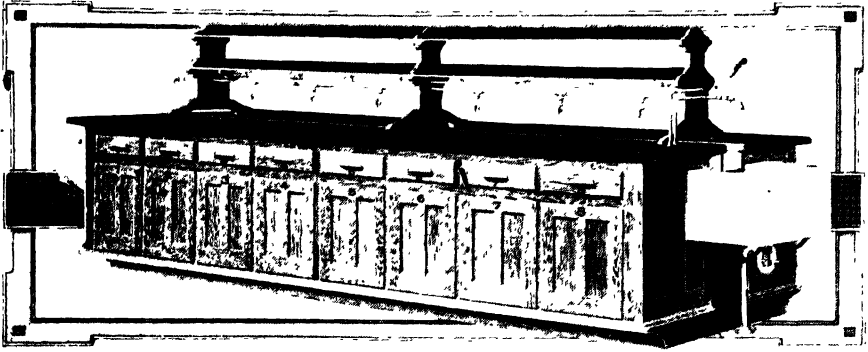
Prints, Washes and Dries in One
Operation



PEASE VERTICAL BLUE PRINT MACHINE

Installed with Pease Sheet Washer

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Special Laboratory Equipment Often is Unnecessary

Kewaunee Standardized Desks will be found to serve economically every need, making unnecessary the building of special equipment. Kewaunee is the Standardized High Grade Laboratory Equipment of America.

We have been privileged to equip some of the largest and best known manufacturing institutions in America and we are thoroughly conversant with the needs of such users.

Kewaunee Laboratory Furniture

The correct manufacture of modern laboratory furniture requires an exactness and special attention to detail that cannot be performed by untrained or inexperienced workmen. Our years of experience devoted exclusively to the production of laboratory furniture, our complete factory equipment of modern cabinet-making machinery, with skilled cabinet makers trained in this special work, our extensive floor space and vast drying and tempering-room capacity, enable us to extend intelligent service and to supply laboratory furniture of the very best type of construction, of quality and of adaptability.

Blueprints, showing location of floor connections, will be sent on request to prospective customers. We will make drawings gratis, upon receipt of specifications.

NEW YORK
OFFICE
70
Fifth
Avenue

Kewaunee Mfg. Co.
LABORATORY FURNITURE EXPERTS
KEWAUNEE, WIS.

CHICAGO
OFFICE
20 E.
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BRANCH OFFICES:

Columbus	Atlanta	Dallas	Alexandria, La.	El Paso
Little Rock	Kansas City	Spokane	Minneapolis	
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Acid-Proof Chemical Stoneware

Made in AMERICA by AMERICANS who KNOW HOW

NO PIECE WORK

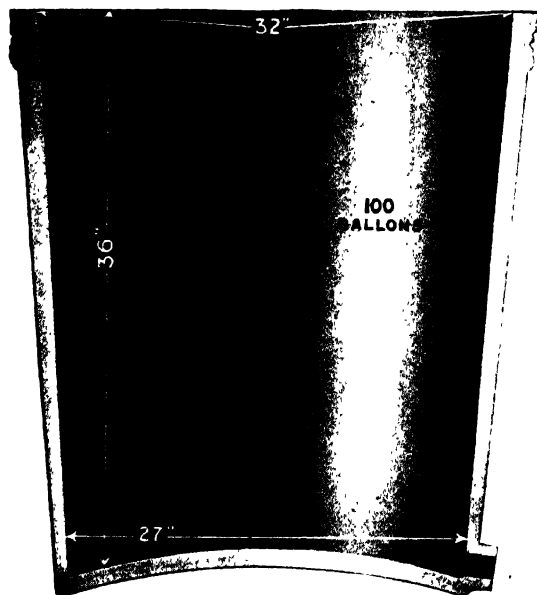
Our ware will withstand the action of Acids, Alkalies and Chemicals
Hot or cold, strong or weak

IT IS THE BODY ITSELF



EVAPORATING OR CRYSTALLIZING PANS

Made in all sizes and designs. With or without lips or runs



STANDARD 100 GAL. ACID JAR

We make jars and tanks in any size or design with covers and outlets as desired



ACID-PROOF PHOTO TANK

Notice grooves for rods are set in, so that a glass plate covers tank tightly. Furnished with faucet outlets if desired

We make **every description**
acid-proof chemical stoneware,
from special pieces to
complete plants.

Let us send you circulars and particulars

MAURICE A. KNIGHT Office and Factory East Akron, Ohio
Kelly Avenue

A COMPLETE LINE OF

ACID PROOF CHEMICAL STONEWARE

We design and install COMPLETE PLANTS ready for
operation for the Manufacture, Recovery
and Storage of Acids and other
Corrosive Products

AND

Acid Elevators —
automatic and non-
automatic
Carboy Stoppers
Check Valves
Chlorine Generators
Coils
Crystallizing Vessels
Dampers
Decanting Pots
Dipping Baskets
Exhausters
Faucets of all Kinds
Filters
Foot Valves
Funnels

Injectors
Jars
Kettles
Laboratory Sinks
Lanterns
Mariotte Bottles
Mortars
Nitrating Vessels
Percolators
Photographic Tanks
Pipes of all Kinds
Pots
Pumps - Plunger and
Centrifugal
Pumps for gases

Receivers
Retorts
Safety Valves
Stills
Stirrers
Storage Vessels
Subliming Dishes
Suction Filters
Siphons
Tanks
Tourills
Towers
Vacuum Kettles
Valves
Vats

OUR CUSTOMERS CALL OUR QUALITY

“The Best”

*We operate the largest and most modern plants in the U. S.
for the manufacture of Chemical Stoneware and our pro-
duction exceeds the combined output of all other domestic
manufacturers.*

GENERAL CERAMICS COMPANY

150 CHURCH STREET, NEW YORK CITY

Kindly mention the Directory in answering advertisements

STONWARE

Acid Proof Chemical Vats

All Sizes up to Sixty Gallons

Druggists' Jugs

Western Stoneware Company

MONMOUTH

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ILLINOIS

GRIEBEL INSTRUMENT CO.

BURETTES, PIPETTES, VOLUMETRIC FLASKS
MADE ACCORDING TO U. S. BUREAU OF STANDARDS SPECIFICATIONS
BECKMAN'S THERMOMETERS
THERMOMETERS AND HYDROMETERS FOR EVERY INDUSTRY
HEAVY SEPARATORY FUNNELS
CONDENSER AND EXTRACTION APPARATUS
PYREX GLASSWARE - COORS PORCELAIN
SWEDISH FILTER PAPER

CARBONDALE, PA.

Chemical resistant glass test tubes, high and low pressure gauge tubes, glass cylinders for oil lubricators, measuring cylinders for laboratory work

ALL KINDS OF
CHEMICAL, SURGICAL AND LABORATORY GLASSWARE

Flint, Blue and Amber Color Glass Tubing and Rod

SEND FOR OUR LATEST CATALOGUE AND DISCOUNTS

DOERR GLASS COMPANY, Inc.,
VINELAND, N. J.

TECHNICAL GLASSWARE

CORNING GLASS WORKS

World's Largest Makers of Technical Glass

ESTABLISHED 1868

MAIN FACTORY AND OFFICE, Corning, N. Y.

NEW YORK OFFICE, 501 Fifth Avenue

PRODUCTS: Glassware, mainly for Technical Requirements.

BAKING WARE: Casseroles, plates, pans, etc. Also oven door plates, percolator flasks and tops; made from a low expansion borosilicate glass of unique properties, marketed under the trade-mark "PYREX."

BATTERY JARS: For primary or storage cells in Corning "NONEX" (low expansion heat resisting) glass only; also Jars for Leyden

BULBS: All types of standard but special bulbs for X-ray apparatus

CANE: Solid rods, clear or colored, for lamp working

CHEMICAL GLASS WARE: Beakers, flasks and other laboratory ware exclusively in PYREX glass

CHIMNEYS: For gas or oil lamps in NONEX glass only.

CYLINDERS: In all diameters and lengths according to specifications from either lead or PYREX glass

HEADLIGHT GLASSES: Conaphoric front glasses for auto headlights in clear or Noviol tint, plane or convex for arc headlights in NONEX glass

LANTERN GLOBES: In NONEX glass, clear and all standard colors

LENSES: Molded in a great variety of designs and sizes for Railway Signal Service, Marine Service, etc. Standard colors are Red, Yellow, Green, Blue, Purple and Lunar White, also clear glass. (The Corning Glass Works maintain the only laboratory in the world devoted to the study of signal glass and signal lenses.)

LIGHT FILTERS: Glasses of special spectral absorption or transmission, such as:

Daylite, No. G 172 CD, for production of artificial daylight, very accurate with Nitrogen filled lamp. Noviol, No. G 38 D, total absorption of ultra-violet. Noviweld, No. G 39, in various shades for protection against excessive illumination in arc welding and similar processes.

Ultra, No. G 120, high transmission of ultra-violet. No. G 11 F, high transmission of X-rays. No. G 24, absorption of all visible spectrum except red.

OPTICAL GLASSES: Of special refractive indices and dispersion for lens-grinding, including lime crown glass of 1.523 index, lead flint of 1.6165 and 1.68 index,—also standard colors such as Amber, Smoke, Freuzal, Amethyst, etc., see also Light Filters above.

PYREX: A recently developed extraordinarily low expansion borosilicate glass. Pyrex satisfactorily replaces porcelain and quartz glass for many purposes because of its low linear expansion coefficient (25° to 350° C = 0.0000032). The simple chemical composition of Pyrex is an advantage as regards possible contamination of liquids in contact with it. It contains no metals of the magnesia-lime-zinc group and no heavy metals.

Aside from Chemical ware and Baking ware, this glass is used for a great variety of special purposes, such as evaporating dishes, special flasks, etc.

TUBING: Including all varieties of Thermometer and Barometer tubing, Brewer, Clinical, Plaque, etc., in standard lead glass, also in Corning Normal and Corning Borosilicate Glasses. Special tubes for acid condensers, for laboratory service, for lamp working, etc.

X-RAY SHIELDS: Glasses of special composition for protection against X-rays.

Corning Glass Works have made the production of technical glassware their special field for fifty years. They maintain the most fully equipped laboratory in the world devoted to the study of the technical problems of glass manufacture. The results of research conducted in Corning Glass Works have revolutionized some very important industries during the past twenty years. We stand ready to cooperate with any manufacturer by developing special glasses to meet the particular requirements of his service if our present list does not afford exactly what is needed. The service of our chemists and physicists is at your disposal. Our designers can determine how to prevent unnecessary expense and how to secure maximum efficiency by avoiding unsuitable designs.

Price lists, descriptive circulars, etc., on request.

Kindly mention the Directory in answering advertisements

American Platinum Ware

*The most satisfactory material, with which to accomplish
maximum results in modern laboratory practice.*

Our products include platinum ware of standard and special design for all of the many branches of research work and their use brings to the laboratory worker the satisfaction of effort well spent.

For nearly half a century, American Platinum Ware has stood the test of the most exacting sort of Scientific and Industrial work. You can profit through our experience.

Write Today for Catalogue G-15

American Platinum Works
NEWARK, NEW JERSEY

New York Office: Charles Engelhard, 30 Church Street

1812--**PLATINUM**--1919



in all shapes and sizes for analytical, metallurgical or chemical purposes.

A few characteristics of

Bishop Standard Platinum:

- 1 Specially refined metal.
- 2 Expert workmanship.
- 3 Absolute guarantee.
- 4 Durability and consequent economy.

It is produced with the skill that only the pioneers of the industry can give with their 77 years experience.

Scrap purchased or exchanged.

Catalog on request.

J. Bishop & Co. Platinum Works
MALVERN, PENNA.

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BAKER

Platinum Apparatus



“BAKER”
is standard for Platinum

Only specially refined Platinum is used in

BAKER
LABORATORY WARE

Each piece of Platinum apparatus is tested by the Government method and guaranteed to fulfill the purity specifications of the Bureau of Standards, which insure prolonged service and constancy of weight.

Old crucibles and other appliances of all forms repaired, repurified, purchased or exchanged for new ware.

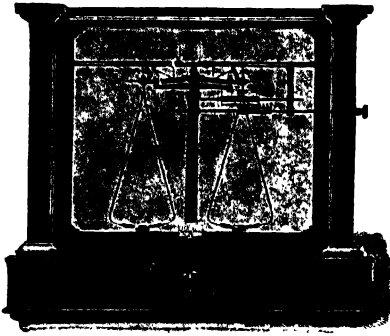
BAKER & CO., Inc.

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30 Church St.

CHICAGO OFFICE
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TYPE Q
With Improved Multiple Rider Carrier
1200 mg. capacity

No fractional weights required to be used with the
type Q balance and none smaller than 50 mg
with type L J balance.

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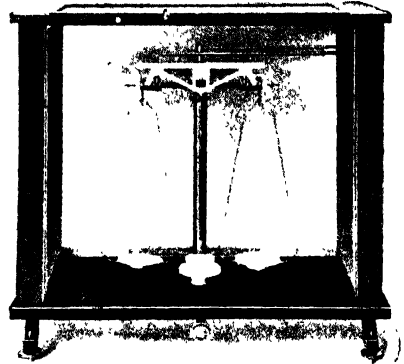
Wm. Ainsworth & Sons

THE PRECISION FACTORY

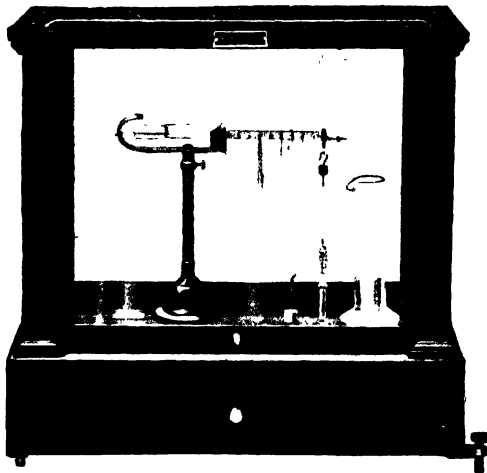
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AINSWORTH PRECISION BALANCES

Are Rapid, Durable and Accurate
Instruments for Speeding up
Laboratory Work



TYPE L J
With Improved Rider Carrier 50 mg. capacity



Westphal Balance Complete in Case

REPAIRS

On Old
MICROSCOPES

BALANCES

and

INSTRUMENTS

of all kinds
made promptly
efficiently and economically

ESTABLISHED 25 YEARS

A. DAIGGER & CO.

Laboratory Supplies and Chemicals

51 West Kinzie Street

CHICAGO,

- - Dept. 20 - -

ILLINOIS

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CHAINOMATIC

SPECIFIC GRAVITY CHAINOMATIC BALANCE

FOR LIQUIDS

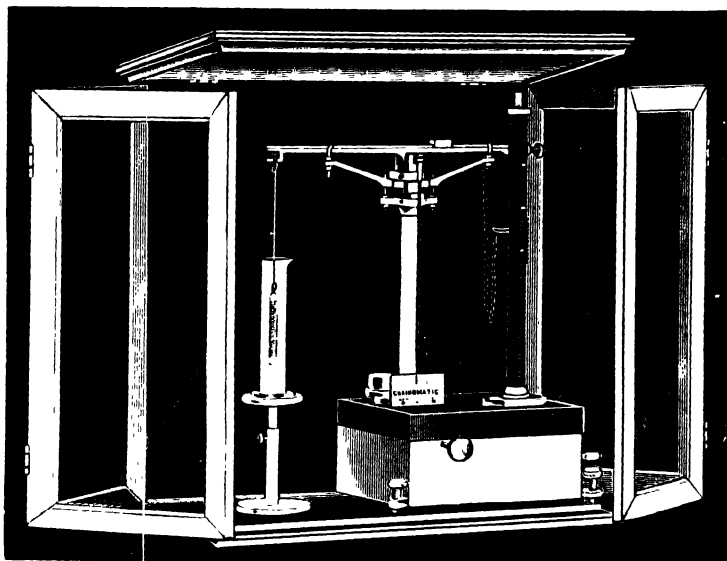
SIMPLE

ACCURATE

RAPID

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**AUTOMATIC IN PRINCIPLE
NO WEIGHTS OR RIDERS**



• **GRADUATED SCALE GIVING
DIRECT READINGS IN SPECIFIC GRAVITY
TO THE 4TH DECIMAL PLACE**

The plummet immersed in the liquid under test, the rotation of the handle placed at the right hand of base, manipulates a spiral drive, raising or lowering the chain, one end of which is hung from the beam and the other end from a slide block which is moved up and down on a vertical graduated scale. This scale, provided with vernier, is graduated to give direct readings in Specific Gravity, with an accuracy equal to the highest grade analytical balance.

Analytical and Laboratory Balances Complete Catalog on Request
TORSION LABORATORY BALANCES.

CHRISTIAN BECKER, Inc.

MAIN OFFICE

92 Reade Street, New York

FACTORY

147-151 Eighth Street, Jersey City, N. J.

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49 California Street, San Francisco, Cal.

31 West Lake Street, Chicago

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APARTADO CORREOS, No. 144

Barcelona (Spain)

Telegraphic Address: "Sogal, Barcelona." Codes A. B. C. 4th
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MANUFACTURERS OF: Cream of Tartar.

IMPORTERS: Drugs, Chemicals, Colours, etc.

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HERBS: Gentian Root, Aconit, Ellebore,
Licorice, Marshmallow, Belladonna; Red
Poppy Flowers, Chamomile, Blue Mal-
low, Lavender; Uva Ursi Leaves, Sage,
Mallow, Rosemary, Thyme, Digitalis;
Psyllium Seeds, Luzerne, Aniseed,
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ESSENTIAL OILS of Rosemary, Spike-
Lavender, Sage, Marjoram, Pennyroyal,
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Agents for Drugs and Herbs:

BICHELS & TECHOW, 98 Maiden Lane, New York

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Gignoux Frères & Barbezat

CHEMICAL and PHARMACEUTICAL PRODUCTS
DRUGS and HERBS

WORKS at DECINES, Near Lyons (FRANCE)

HYDROGEN PEROXIDE 30% 100 volumes.

PHARMACEUTICAL EXTRACTS of all kinds:

Fluid Extracts for Syrups
American Fluid Extracts
Semi-fluid Extracts: Gentian, Belladonna,
Ergotine, etc., etc.
Extracts of Fruits
Apiol jaune et vert.

VETERINARY EXTRACT OF MALE FERN
24-25% Filicine

Kills Liver-Fluke and Cures Sheep and Cattle

PURE EXTRACT OF MALE FERN
35-36% Filicine

METALLINE.

Metallic solution for capsuling vials, bottles, etc.

HERBS of all Kinds:

ARNICA BOURDAINE CHAMOMILE
EUCALYPTUS FOUGERE GENTIAN
LAVENDER TILLEUL Etc.

CHEMICALS

ESTABLISHED 1802

E. I. du Pont de Nemours & Co.

WILMINGTON, DELAWARE

Pyroxylin chemicals and products, tar distillates,
heavy chemicals, acids, alums, synthetic dyestuffs,
dyestuff intermediates and miscellaneous chemicals.

{ PRODUCTS }

SOLD BY

SOLD BY

DU PONT CHEMICAL WORKS

Acids: naphthionic, picramic, picric, salicylic, sulphamic, chlorosulphonic, cresotinic

Bronze Powders: more than 200 colors and shades

Bronzing Liquids: for wood or metal

Cements: waterproof, belt, household cements

Collodion: also Parlodion: a shredded form of pure concentrated collodion

Colors, celluloid dip

Cotton, soluble

Dopes: acropian and split leather dopes

Dyestuff Intermediates: aniline, alpha naphthylamine, benzidine base, benzidine sulphate, chlorosulphonic acid, cresotinic acid, tech, meta, phenylenediamine, meta, toluylenediamine, mixed toluidine, meta nitrotoluid, naphthionic acid, ortho nitrotoluid, paraaminodiphenol base, para nitro chlorbenzol, salicylic acid, para nitro dimethyl aniline, para nitrophenol, picramic acid, picric acid, para nitro sodium phenolate, para tolnol sodium sulphinate, sulphamic acid, xylidine, toluidine, monochlorbenzol, ortho toluidine, dimethyl aniline, diatrotrophenol, dinitrotoluid, dinitrochlorobenzol, dinitrobenzol, dichlorobenzol, diphenylamine

Enamels: Py-rac-lin Enamels, Pyroxylin Enamels in many color for any purpose, Cold Enamel

Ethers: anesthesia, U. S. P., 1910 and laboratory

Lacquers: brush, dip or spray, for wood or metal in any color for any purpose

Leather Solutions, for split, patent and artificial leather

Mantle Dips

Paints: Carpolene (preservative for wood), Carpo (preservative for metals), Pegamoid-Aluminum Paint

Pharmaceuticals: cresote, carbonate, gumacol, liquid and crystal, gumacol carbonate, salicylic acid, U. S. P.

Photographic Developers: para aminodiphenol base

E. I. du Pont de Nemours & Co. WILMINGTON, DELAWARE

Acid and Heavy Chemical Sales Dept.

Acids: acetic, all grades and strengths, mannitic, lactic, mixed, nitric, sulphuric, dipping, storage battery electrolyte

Alums: ammoniac, U. S. P., cake, filter, iron free, pearl, pickle, potash, U. S. P., porous, size (sulphate of aluminum, commercial) and "to"

Acetate of Soda

Acetate of Lead: Sugar of Lead

Aqua Ammoniac

Aqua Forte

Barium Chloride

Barium Nitrate

Bauxite

Bichromate of Soda

Distilled Water

Nitrate of Strontia

Nitrite of Soda

Nitro Cake

Salt cake: Sodium Sulphate

Strontium Carbonate

DYESTUFFS SALES DEPT.

Synthetic Dyestuffs*

Pyroxylin Solvents: amyl acetate (standard, special No. 1, special No. 3), isoamyl acetate, refined fusel oil, iso amyl alcohol, ethyl acetate (pure and U. S. P.)

Sodium Acetate

Tar Products: pitch, Pontar (road binder), Carpo (metal preservative), Carpolene (wood preservative), dead oil, shingle oil, xylol, Petro-kene, (tar remover) flotation oil, solvent naphtha, cod. e, refined tar, crude tarsols, cresote, refined cresote, naphthalene, benzol

E. I. du Pont de Nemours & Co.—Continued

INQUIRIES AND CORRESPONDENCE:

Our long experience and our thorough knowledge of the requirements of the various consuming industries enables us to give maximum satisfaction and service by meeting the needs of our customers accurately and completely.

FACILITIES:

Sixty plants are employed in the manufacture of our various products. These plants are situated in various parts of the United States, with a view to maximum efficiency in production and distribution. Warehouses and sales offices are maintained in the principal business centers.

LABORATORIES:

Four great research laboratories, operated by the company's Chemical Department, employing in the neighborhood of four hundred technically trained men, are maintained to carry on experimental operations for the improvement of existing processes, to find the means of utilizing our many by-products, and to develop new products.

For work of this kind, two million dollars were spent by the company last year. This does not include capital expenditure for the buildings and equipment employed in this work.


Thirty analytical laboratories are operated by the company for the testing of raw materials and finished products and the control of the manufacturing operations. Including the staffs of these laboratories the total number of graduate chemists employed by the company in 1918 was about 1200, or, roughly, ten per cent. of the total number in the United States.

At your request we will mail you literature, and give you complete information regarding any of the above products.

E. I. DU PONT DE NEMOURS & CO.

WILMINGTON, DELAWARE

American Dyestuffs in 1919

 HIS COMPANY was founded to provide America with a permanent dye-stuff industry. Its predecessors were the pioneers in American color production. The war brought not only the opportunity but the necessity for the development of this accumulated experience. Upon this experience has been built a structure in personnel and in equipment not bettered by any European works.

The obligation resting upon us during the war was to produce quantity. The emergency needs of the Government and of the textile industry demanded first attention. The building of our immense plants had to go on hand in hand. Today we are producing some 60 intermediate products and over 160 different colors. Type for type these products are as fine in quality as any ever imported.

Out of our Research Department must come the future progress of the Company. Its past years of steady upbuilding and devoted service will become evident as better

and newer types advance into the semi-manufacturing, and ultimately to the full manufacturing scale of production. Several very important types to be available in 1919 have already been announced. We know the needs of the country by reason of years of service which our selling units have devoted to the textile industry, and the research which we undertake is dictated in the interest of the textile user.

Primarily and logically, the American coal-tar color industry is a servant of the great American textile manufacturers, whose annual product runs into the hundreds of millions. It is the needs of the great army of textile consumers that we serve. It is the voice of the textile manufacturer to whom we listen. It is because the great investment in textile manufacture must be insured against loss for all time, that an American dyestuff industry has been born to serve the Government with explosives for war, and with colors for textiles and allied industries in both peace and war.

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Incorporated

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Myrtine (Verdinol)
Princess

BLUE

Azurine

BUTTER COLOR

Jersey Yellow (Soluble in Oil)

BROWN

Orinoco (Brazil Brown)
Parana (Maricaoibo)
Caracas (Deep Brown)

VIOLET

Mariet

YELLOW

Helio (Lemon)
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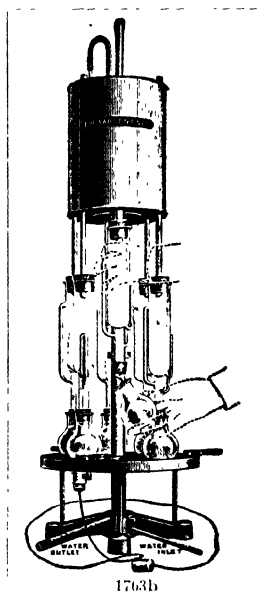
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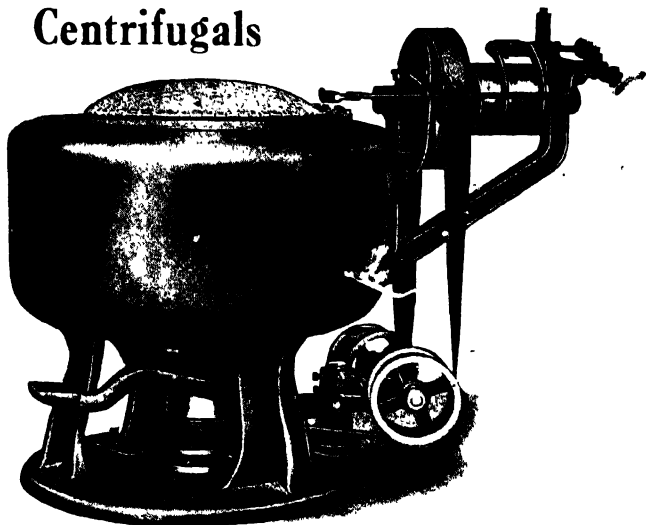
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